



■ High Efficiency

■ High Precision

■ High Stability

# EL Series High-density Programmable DC Electronic Load & System

»» Application Guide

■ DC Electronic Load: P2-P66

■ DC Electronic Load System: P67-P84

# EL Series High-density Programmable DC Electronic Load

## EL Series High-density Programmable DC Electronic Load



(2U)600W~3000W



(3U)3400W~5600W



(4U)6600W



(7U)8800W~13200W



(10U)15400W~19800W



(13U)22000W~26400W

Voltage	Input		Model	Size	Resolution		Accuracy		Flippable Front Panel	Certificates
	Current	Power			Voltage	Current	Voltage	Current		
200V	60A	600W	EL200VDC600W	2U ①	0.1mV	0.1mA	0.015%+0.015%F.S.	0.04%+0.04%F.S.	NO	CE
	130A	1200W	EL200VDC1200W			0.1mA				
	190A	1800W	EL200VDC1800W			0.1mA				
	260A	2400W	EL200VDC2400W			0.5mA				
	320A	3000W	EL200VDC3000W	0.5mA						
	370A	3400W	EL200VDC3400W	0.5mA						
	480A	4400W	EL200VDC4400W	0.5mA						
	610A	5600W	EL200VDC5600W	0.5mA						
	720A	6600W	EL200VDC6600W	0.5mA						
	960A	8800W	EL200VDC8800W	1mA						
	1200A	11000W	EL200VDC11000W	1mA						
	1440A	13200W	EL200VDC13200W	1mA						
	1680A	15400W	EL200VDC15400W	2mA						
	1920A	17600W	EL200VDC17600W	2mA						
	2160A	19800W	EL200VDC19800W	2mA						
	2400A	22000W	EL200VDC22000W	4mA						
2640A	24200W	EL200VDC24200W	4mA							
2880A	26400W	EL200VDC26400W	4mA							
600V	40A	600W	EL600VDC600W	2U ①	0.5mV	0.1mA	0.015%+0.015%F.S.	0.04%+0.04%F.S.	NO	CE
	90A	1200W	EL600VDC1200W			0.1mA				
	130A	1800W	EL600VDC1800W			0.1mA				
	180A	2400W	EL600VDC2400W			0.2mA				
	220A	3000W	EL600VDC3000W	0.2mA						
	250A	3400W	EL600VDC3400W	0.4mA						
	320A	4400W	EL600VDC4400W	0.4mA						
	410A	5600W	EL600VDC5600W	0.4mA						
	480A	6600W	EL600VDC6600W	0.5mA						
	640A	8800W	EL600VDC8800W	0.5mA						
	800A	11000W	EL600VDC11000W	1mA						
	960A	13200W	EL600VDC13200W	1mA						
	1120A	15400W	EL600VDC15400W	1mA						
	1280A	17600W	EL600VDC17600W	1mA						
	1440A	19800W	EL600VDC19800W	2mA						
	1600A	22000W	EL600VDC22000W	2mA						
1760A	24200W	EL600VDC24200W	2mA							
1920A	26400W	EL600VDC26400W	2mA							
1200V	45A	1200W	EL1200VDC1200W	2U ①	1mV	0.1mA	0.015%+0.015%F.S.	0.04%+0.06%F.S.	NO	CE
	90A	2400W	EL1200VDC2400W			0.1mA				
	125A	3400W	EL1200VDC3400W			0.2mA				
	160A	4400W	EL1200VDC4400W			0.2mA				
	205A	5600W	EL1200VDC5600W	0.2mA						
	240A	6600W	EL1200VDC6600W	0.2mA						
	320A	8800W	EL1200VDC8800W	0.4mA						
	400A	11000W	EL1200VDC11000W	0.4mA						
	480A	13200W	EL1200VDC13200W	0.4mA						
	560A	15400W	EL1200VDC15400W	0.5mA						
	640A	17600W	EL1200VDC17600W	0.5mA						
	720A	19800W	EL1200VDC19800W	0.5mA						
	800A	22000W	EL1200VDC22000W	1mA						
	880A	24200W	EL1200VDC24200W	1mA						
	960A	26400W	EL1200VDC26400W	1mA						

\*Custom master slave system could extend to 528KW(20 units 26.4KW E-load parallel connect).

## Dimensions & Weight



① 423.0x88.0x610.0mm & 18kg/20kg/22kg/24kg/26kg



② 423.0x133.0x610.0mm & 27kg/28.5kg/32.5kg



③ 423.0x177.0x610.0mm & 38kg



④ 423.0x311.0x670.0mm & 61.5kg/67kg/72.5kg



⑤ 423.0x444.0x670.0mm & 94.5kg/100kg/105.5kg



⑥ 423.0x577.0x670.0mm & 129kg/134.5kg/140kg

## Optional Information

(1) LAN & GPIB interface card & cables



## Features

- Flippable front panel and color touch screen allow convenient access and operation.
- Provides four kinds of basic working mode such as CV/CC/CR/CP, and CV+CC/CV+CR/CR+CC complex operating modes.
- Adjustable current slew rate, adjustable CV loop speed.
- Ultra high precision voltage & current measurement.
- OCP/OPP testing function.
- 50kHz high-speed CC/CR dynamic mode.
- 500kHz high-speed voltage and current sampling rate.
- Timing & discharging measurement for batteries.
- Short circuit test mode.
- Auto mode function provides an easy way to do complicated test.
- Dynamic frequency sweep function for determining worst case voltage peaks.\*
- Non linear load mode function makes the simulated loading current more realistic.\*
- Supports external analog control function
- V-monitor/I-monitor.
- LED load simulation function.
- Full protection: OCP, OPP, OTP, over voltage and reverse alarm.
- Up to 20 units master/slave parallel control.
- Front panel USB interface supports data import and export.
- SCPI language and standard rack size make it ideal for ATE System integration.
- Smart fan control with lower noise and better for environment.
- Multi versions to meet the cost performance and different applications.

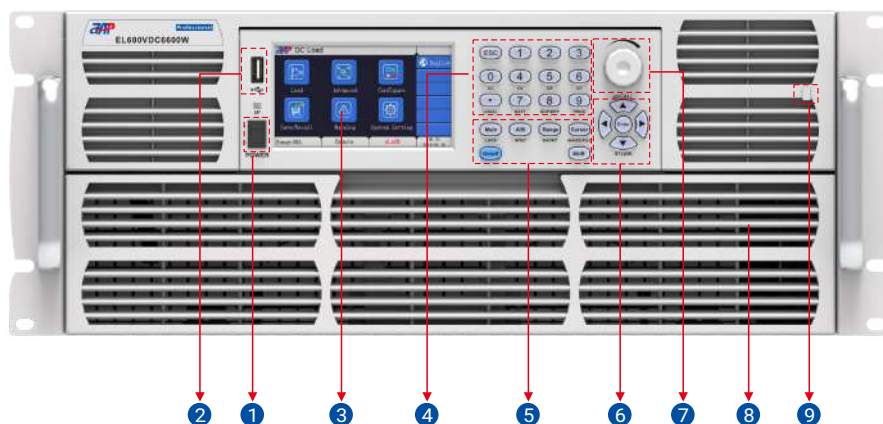
\* Only professional Electronic Load units support these functions.

# EL Series High-density Programmable DC Electronic Load

## Panel Introduction

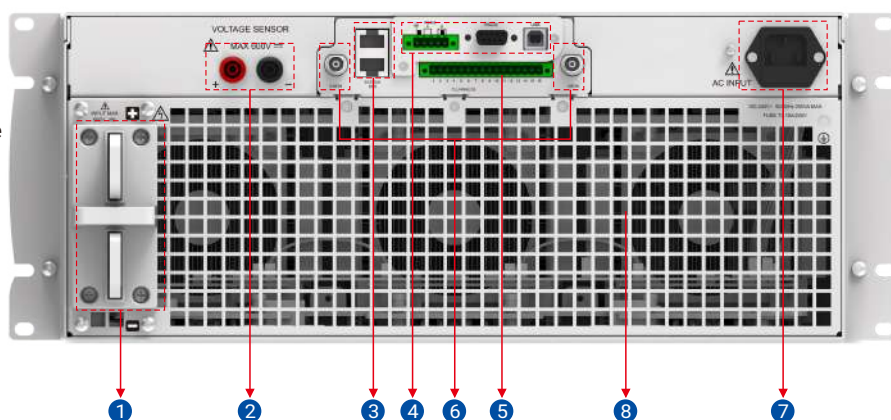
### Front Panel Description

- 1 Power switch
- 2 USB host, for data import and export
- 3 Color touch screen
- 4 Numeric keys and function keys
- 5 Function keys and multifunction keys
- 6 Enter key and arrow keys
- 7 Push-on knob, for editing parameter and moving the location of cursor
- 8 Ventilation holes
- 9 Stylus



### Rear Panel Description

- 1 Load positive/negative terminal
- 2 Remote sense connections
- 3 System Bus, for mater/slave system data transmission
- 4 RS485/RS232/USB communication Interface (standard), LAN&GPIB communication Interface (optional)\*
- 5 External TTL/Analog control Interface
- 6 V-monitor/I-monitor
- 7 AC input connector
- 8 Ventilation holes



\* When LAN&GPIB interface card selected it will be installed here instead of RS485/RS232/USB interface card.

## Function Introduction

### Flippable Front Panel and Color Touch Screen

This series High Power DC Load is equipped with flippable front panel for 4U, 7U, 10U and 13U height models. Together with a large color touch screen provides simple and fast operation for customer. Real-time update of display input data, status and graphical display makes it more intuitive.



### Multiple Operating Mode

#### Basic Operating Mode

This series High Power DC Load provides four kinds of basic operating mode including CV (constant voltage), CC (constant current), CR (constant resistance), CP (constant power), to satisfy a wide range of test requirements.

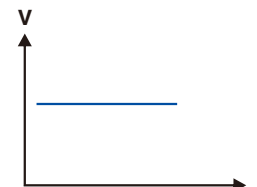
#### CC Mode

1. Load regulation test of DC power supply
2. Discharge time and life test for battery
3. Fuel cells test
4. Loading test for DC motor



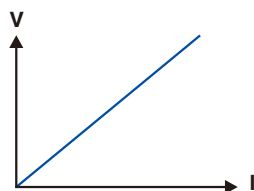
#### CV Mode

1. Charging station test
2. Current limit testing for Fold back type power supply
3. Fuel cells test
4. Current source test



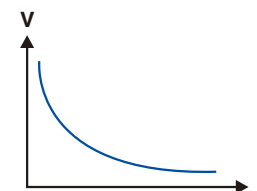
#### CR Mode

1. Slow start test for communication power supply
2. LED driver test
3. Loading test for automobile temperature controller



#### CP Mode

1. Testing for constant power type power supply
2. Capacity and life test for battery

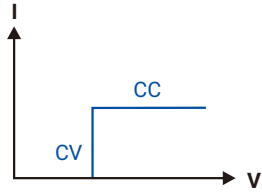




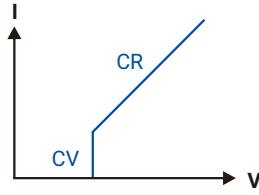
# EL Series High-density Programmable DC Electronic Load

## Complex Operating Mode

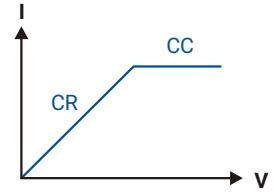
The CV+CC mode can be applied to the load simulation battery and test the charging station or the car charger.



The CV+CR mode can be used to simulate the dynamic characteristics of LED.

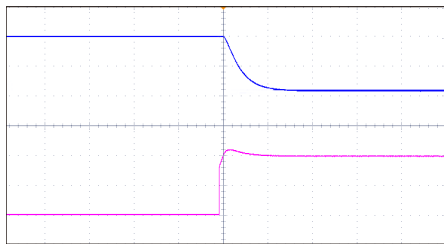


The CR+CC mode is suitable for power on testing.

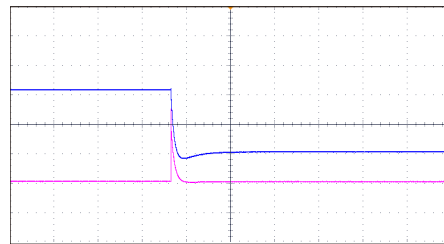


## Adjustable CV Loop Speed

This series electronic load supports CV loop response speed setting to FAST, NORMAL or SLOW to satisfy different test requirements. This function may avoid the inaccurate measurement or testing fail caused by the response speed mismatch between the load and the power supply, which is possible to improve test efficiency and reduce costs on the equipments, time and expenses.



Slow speed of CV loop



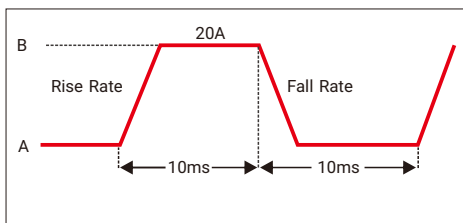
Normal speed of CV loop

## Dynamic Load

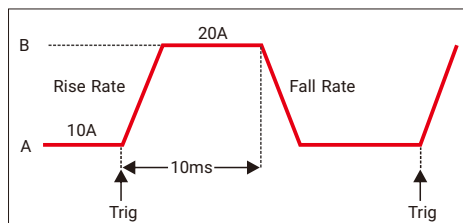
This series electronic load can be switched quickly between different values in the same operating mode, including CC dynamic mode, CV dynamic mode, CR dynamic mode and CP dynamic mode, CC/CR high speed dynamic mode up to 50kHz.

This function is suitable for transient test of power supply, test of battery protection characteristic and battery pulse charging etc.

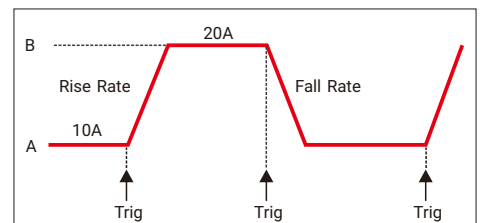
Dynamic mode test has continuous mode, pulse mode and toggle mode.



Continuous Mode



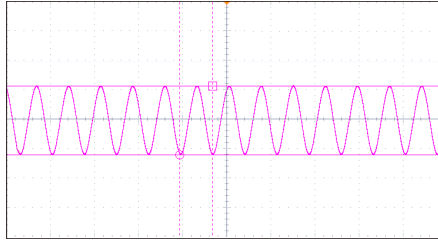
Pulse Mode



Toggle Mode

## Sine Wave Dynamic Load

This series electronic load supports sine wave loading function which allows to load sine wave, can be used for impedance analysis test of fuel cells.

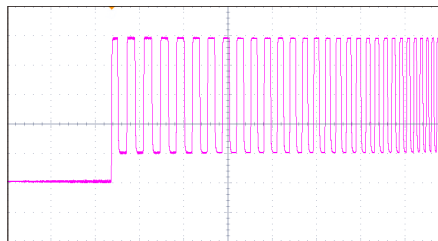


## Dynamic Frequency Sweep Function

This series electronic load provides a unique constant current dynamic sweep to use frequency conversion to find out the UUT voltage of worst case.

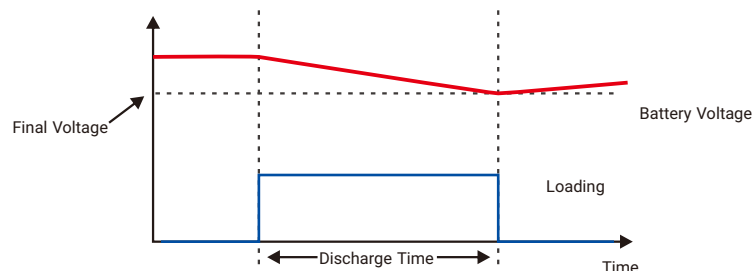
This CC dynamic sweep allows the user to edit two load levels, start frequency, end frequency, step frequency, dwell etc.

The sampling rate is up to 500kHz, which make it can simulate different loading conditions for most test requirements.



## Battery Discharge Test

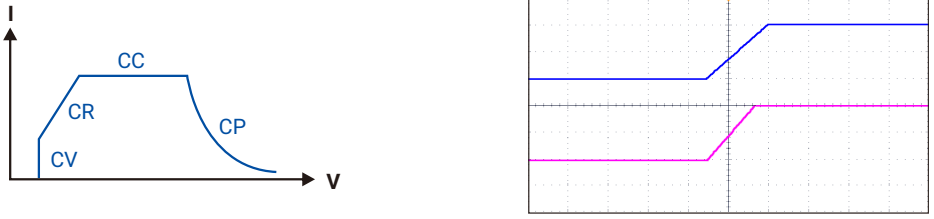
This series electronic load has battery discharge function, and can perform discharge test under CC, CR or CP mode. The DC load can set end voltage or time to stop loading correctly and make sure the battery is not damaged due to over discharge. The user can set stop conditions, whenever met any condition, the load will stop loading and counting automatically. During the test, users can observe battery's voltage, discharging time and already-discharged-capacity.



# EL Series High-density Programmable DC Electronic Load

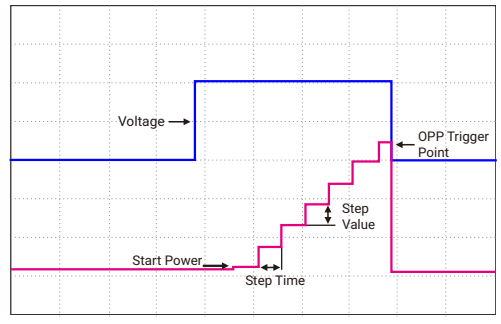
## Auto Mode

This mode allows automatically switches among CV, CR, CC and CP modes. It is suitable for lithium ion battery charger testing to get a complete V-I charging curve. This flexible auto mode also enormously improve test efficiency.



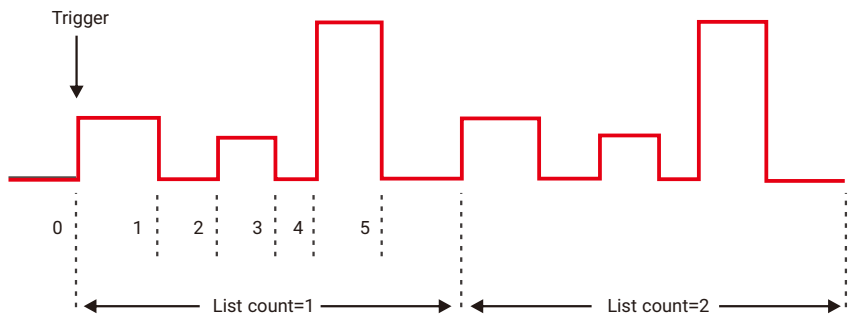
## OCP/OPP Tests

This series electronic load provides OCP and OPP modes are mainly applied in over-current and over-power points tests. After the testing the load can automatically judge the test result according to the set specifications. Take OPP testing as example, the OPP provides ramped up power for the load to test the UUT voltage whether has reached trigger voltage level and to judge if the protection is acting normally or not.



## List Mode

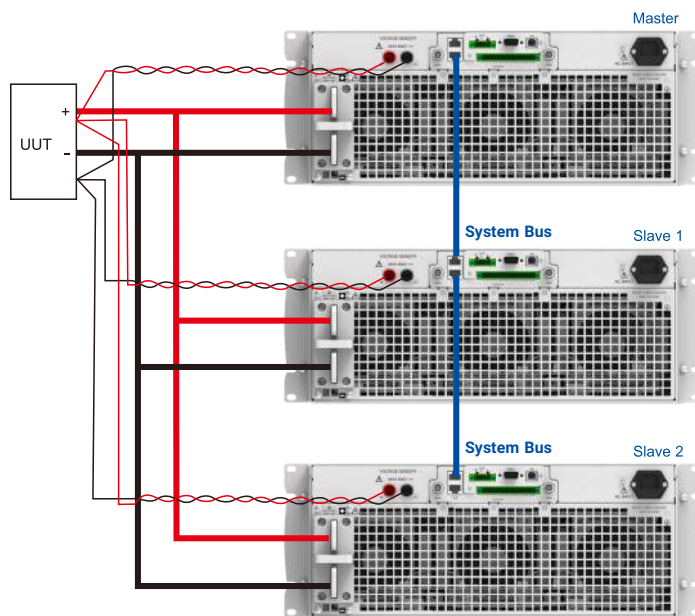
The list function allows user to create waveform files to automatically simulate various complicated loading conditions. The list mode has 10 files, by editing operating mode (including CC, CV, CR, CP, Short and ON/OFF), repeat times, total steps, setting value of each step and step time etc. This function can be applied to the testing of output characteristic and stability for power supply.





## Master/Slave Control

This series electronic load provides the user with Master/slave mode, supports parallel connection under different power and same voltage and dynamically synchronized. In Master/slave mode, the user only need to control the master one, the load current will be automatically calculated and downloaded to the slave loads. The Master/slave mode greatly simplifies the operation when increased power is needed.



## External Control and Current/Voltage Monitoring

This series electronic load has analog control interface to control the input voltage and current. The external signal 0 to 10V controls the sinking condition from 0 to full scale. Using the external control mode can simulate arbitrary waveform which is ideal for industrial control requirement.

The 0 to 10V analog output signal of V-MON/I-MON terminals represent input to which the terminals belong from 0 to full range. An external voltmeter or oscilloscope can be connected to display input voltage/current change.

## Applications



New energy



Automotive electronics



Electronic component



Power supply



Battery charge/discharge test



ATE systems



R/D design verification/quality assurance



Factory production online test

## Contents

EL200VDC600W -----	12	EL1200VDC1200W -----	50
EL200VDC1200W -----	13	EL1200VDC2400W -----	51
EL200VDC1800W -----	14	EL1200VDC3400W-----	52
EL200VDC2400W -----	15	EL1200VDC4400W-----	53
EL200VDC3000W -----	16	EL1200VDC5600W-----	54
EL200VDC3400W-----	17	EL1200VDC6600W-----	55
EL200VDC4400W-----	18	EL1200VDC8800W-----	56
EL200VDC5600W-----	19	EL1200VDC11000W-----	57
EL200VDC6600W-----	20	EL1200VDC13200W-----	58
EL200VDC8800W-----	21	EL1200VDC15400W-----	59
EL200VDC11000W-----	22	EL1200VDC17600W-----	60
EL200VDC13200W-----	23	EL1200VDC19800W-----	61
EL200VDC15400W-----	24	EL1200VDC22000W-----	62
EL200VDC17600W-----	25	EL1200VDC24200W-----	63
EL200VDC19800W-----	26	EL1200VDC26400W-----	64
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EL200VDC24200W-----	28		
EL200VDC26400W-----	29		
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EL600VDC600W -----	31		
EL600VDC1200W -----	32		
EL600VDC1800W -----	33		
EL600VDC2400W -----	34		
EL600VDC3000W -----	35		
EL600VDC3400W-----	36		
EL600VDC4400W-----	37		
EL600VDC5600W-----	38		
EL600VDC6600W-----	39		
EL600VDC8800W-----	40		
EL600VDC11000W-----	41		
EL600VDC13200W-----	42		
EL600VDC15400W-----	43		
EL600VDC17600W-----	44		
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EL600VDC22000W-----	46		
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# EL Series High-density Programmable DC Electronic Load

## Selection List:

Model	Voltage	Current	Power	Corresponding page
EL200VDC600W	200V	60A	600W	P12
EL200VDC1200W	200V	130A	1200W	P13
EL200VDC1800W	200V	190A	1800W	P14
EL200VDC2400W	200V	260A	2400W	P15
EL200VDC3000W	200V	320A	3000W	P16
EL200VDC3400W	200V	370A	3400W	P17
EL200VDC4400W	200V	480A	4400W	P18
EL200VDC5600W	200V	610A	5600W	P19
EL200VDC6600W	200V	720A	6600W	P20
EL200VDC8800W	200V	960A	8800W	P21
EL200VDC11000W	200V	1200A	11000W	P22
EL200VDC13200W	200V	1440A	13200W	P23
EL200VDC15400W	200V	1680A	15400W	P24
EL200VDC17600W	200V	1920A	17600W	P25
EL200VDC19800W	200V	2160A	19800W	P26
EL200VDC22000W	200V	2400A	22000W	P27
EL200VDC24200W	200V	2640A	24200W	P28
EL200VDC26400W	200V	2880A	26400W	P29
EL600VDC600W	600V	40A	600W	P31
EL600VDC1200W	600V	90A	1200W	P32
EL600VDC1800W	600V	130A	1800W	P33
EL600VDC2400W	600V	180A	2400W	P34
EL600VDC3000W	600V	220A	3000W	P35
EL600VDC3400W	600V	250A	3400W	P36
EL600VDC4400W	600V	320A	4400W	P37
EL600VDC5600W	600V	410A	5600W	P38
EL600VDC6600W	600V	480A	6600W	P39
EL600VDC8800W	600V	640A	8800W	P40
EL600VDC11000W	600V	800A	11000W	P41
EL600VDC13200W	600V	960A	13200W	P42
EL600VDC15400W	600V	1120A	15400W	P43
EL600VDC17600W	600V	1280A	17600W	P44
EL600VDC19800W	600V	1440A	19800W	P45
EL600VDC22000W	600V	1600A	22000W	P46
EL600VDC24200W	600V	1760A	24200W	P47
EL600VDC26400W	600V	1920A	26400W	P48
EL1200VDC1200W	1200V	45A	1200W	P50
EL1200VDC2400W	1200V	90A	2400W	P51
EL1200VDC3400W	1200V	125A	3400W	P52
EL1200VDC4400W	1200V	160A	4400W	P53
EL1200VDC5600W	1200V	205A	5600W	P54
EL1200VDC6600W	1200V	240A	6600W	P55
EL1200VDC8800W	1200V	320A	8800W	P56
EL1200VDC11000W	1200V	400A	11000W	P57
EL1200VDC13200W	1200V	480A	13200W	P58
EL1200VDC15400W	1200V	560A	15400W	P59
EL1200VDC17600W	1200V	640A	17600W	P60
EL1200VDC19800W	1200V	720A	19800W	P61
EL1200VDC22000W	1200V	800A	22000W	P62
EL1200VDC24200W	1200V	880A	24200W	P63
EL1200VDC26400W	1200V	960A	26400W	P64

\*Custom master slave system could extend to 528KW(20 units 26.4KW E-load parallel connect).

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC600W		
Rated	Voltage	0~200V		
	Current	0~60A		
	Power	0~600W		
	Min. Operating Voltage	0.18V@6A	0.9V@30A	1.8V@60A
<b>Static Mode</b>				
Constant Current Mode	Range	0~6A	0~30A	0~60A
	Resolution	0.1mA	0.5mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~60W	0~300W	0~600W
	Resolution	1mW	5mW	10mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	50mΩ~500Ω(16V)	200mΩ~2000Ω(80V)	5000mΩ~5000Ω(200V)
	Resolution	50mΩ(16V)	200mΩ(80V)	5000mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~0.24A/μs	0.5mA/μs~1.2A/μs	2mA/μs~2.4A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.06A/μs	0.5mA/μs~0.3A/μs	2mA/μs~0.6A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~6A	0~30A	0~60A
	Resolution	0.1mA	0.5mA	2mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~60W	0~300W	0~600W
	Resolution	1mW	5mW	10mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	6.12A	30.6A	61.2A	
OPP	61.8W	309W	618W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	18kg			
Shipping Weight	27kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	100VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC1200W		
Rated	Voltage	0~200V		
	Current	0~130A		
	Power	0~1200W		
	Min. Operating Voltage	0.18V@13A	0.9V@65A	1.8V@130A
<b>Static Mode</b>				
Constant Current Mode	Range	0~13A	0~65A	0~130A
	Resolution	0.1mA	0.5mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~120W	0~600W	0~1200W
	Resolution	2mW	10mW	20mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	30mΩ~300Ω(16V)	120mΩ~1200Ω(80V)	3000mΩ~6000Ω(200V)
	Resolution	30mΩ(16V)	120mΩ(80V)	3000mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~1.2A/μs	0.5mA/μs~3.6A/μs	2mA/μs~7.2A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.13A/μs	0.5mA/μs~0.65A/μs	2mA/μs~1.3A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	1mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~13A	0~65A	0~130A
	Resolution	0.1mA	0.5mA	2mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~120W	0~600W	0~1200W
	Resolution	2mW	10mW	20mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	13.26A	66.3A	132.6A	
OPP	123.6W	618W	1236W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	20kg			
Shipping Weight	29kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	125VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC1800W		
Rated	Voltage	0~200V		
	Current	0~190A		
	Power	0~1800W		
	Min. Operating Voltage	0.18V@19A	0.9V@95A	1.8V@190A
<b>Static Mode</b>				
Constant Current Mode	Range	0~19A	0~95A	0~190A
	Resolution	0.1mA	0.5mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~180W	0~900W	0~1800W
	Resolution	2mW	10mW	20mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	20mΩ~200Ω(16V)	80mΩ~800Ω(80V)	2000mΩ~4000Ω(200V)
	Resolution	20mΩ(16V)	80mΩ(80V)	2000mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~1.8A/μs	0.5mA/μs~4.8A/μs	2mA/μs~9.6A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.19A/μs	0.5mA/μs~0.95A/μs	2mA/μs~1.9A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~19A	0~95A	0~190A
	Resolution	0.1mA	0.5mA	2mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~180W	0~900W	0~1800W
	Resolution	2mW	10mW	20mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	19.38A	96.9A	193.8A	
OPP	185.4W	927W	1854W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	22kg			
Shipping Weight	31kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	125VA			
Fuse	2.5A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC2400W		
Rated	Voltage	0~200V		
	Current	0~260A		
	Power	0~2400W		
	Min. Operating Voltage	0.18V@26A	0.9V@130A	1.8V@260A
<b>Static Mode</b>				
Constant Current Mode	Range	0~26A	0~130A	0~260A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~240W	0~1200W	0~2400W
	Resolution	5mW	25mW	50mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	15mΩ~150Ω(16V)	60mΩ~600Ω(80V)	1500mΩ~3000Ω(200V)
	Resolution	15mΩ(16V)	60mΩ(80V)	1500mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~2.5A/μs	2mA/μs~7.5A/μs	5mA/μs~15A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.26A/μs	2mA/μs~1.3A/μs	5mA/μs~2.6A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~26A	0~130A	0~260A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~240W	0~1200W	0~2400W
	Resolution	5mW	25mW	50mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	26.52A	132.6A	265.2A	
OPP	247.2W	1236W	2472W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	24kg			
Shipping Weight	33kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	150VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC3000W		
Rated	Voltage	0~200V		
	Current	0~320A		
	Power	0~3000W		
	Min. Operating Voltage	0.18V@32A	0.9V@160A	1.8V@280A
<b>Static Mode</b>				
Constant Current Mode	Range	0~32A	0~160A	0~320A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~300W	0~1500W	0~3000W
	Resolution	5mW	25mW	50mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	10mΩ~100Ω(16V)	40mΩ~400Ω(80V)	1000mΩ~2000Ω(200V)
	Resolution	10mΩ(16V)	40mΩ(80V)	1000mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~3A/μs	2mA/μs~9A/μs	5mA/μs~18A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.32A/μs	2mA/μs~1.6A/μs	5mA/μs~3.2A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~32A	0~160A	0~320A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~300W	0~1500W	0~3000W
	Resolution	5mW	25mW	50mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	32.64A	163.2A	326.4A	
OPP	309W	1545W	3090W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	26kg			
Shipping Weight	35kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	150VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC3400W		
Rated	Voltage	0~200V		
	Current	0~370A		
	Power	0~3400W		
	Min. Operating Voltage	0.18V@37A	0.9V@185A	1.8V@370A
<b>Static Mode</b>				
Constant Current Mode	Range	0~37A	0~185A	0~370A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~340W	0~1700W	0~3400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	10mΩ~100Ω(16V)	40mΩ~400Ω(80V)	1000mΩ~2000Ω(200V)
	Resolution	10mΩ(16V)	40mΩ(80V)	1000mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~3.5A/μs	2mA/μs~10A/μs	5mA/μs~20A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.37A/μs	2mA/μs~1.85A/μs	5mA/μs~3.7A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mAV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~37A	0~185A	0~370A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~340W	0~1700W	0~3400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	37.74A	188.7A	377.4A	
OPP	350.2W	1751W	3502W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	27kg			
Shipping Weight	36kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	200VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC4400W		
Rated	Voltage	0~200V		
	Current	0~480A		
	Power	0~4400W		
	Min. Operating Voltage	0.18V@48A	0.9V@240A	1.8V@480A
<b>Static Mode</b>				
Constant Current Mode	Range	0~48A	0~240A	0~480A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~440W	0~2200W	0~4400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	7.5mΩ~75Ω(16V)	30mΩ~300Ω(80V)	750mΩ~1500Ω(200V)
	Resolution	7.5mΩ(16V)	30mΩ(80V)	750mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~4.5A/μs	2mA/μs~12A/μs	5mA/μs~24A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.48A/μs	2mA/μs~2.4A/μs	5mA/μs~4.8A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~48A	0~240A	0~480A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~440W	0~2200W	0~4400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	48.96A	244.8A	489.6A	
OPP	453.2W	2266W	4532W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	28.5kg			
Shipping Weight	37.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	250VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC5600W		
Rated	Voltage	0~200V		
	Current	0~610A		
	Power	0~5600W		
	Min. Operating Voltage	0.18V@61A	0.9V@305A	1.8V@610A
<b>Static Mode</b>				
Constant Current Mode	Range	0~61A	0~305A	0~610A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~560W	0~2800W	0~5600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	7.5mΩ~75Ω(16V)	30mΩ~300Ω(80V)	750mΩ~1500Ω(200V)
	Resolution	7.5mΩ(16V)	30mΩ(80V)	750mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~5.6A/μs	2mA/μs~16A/μs	5mA/μs~32A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.61A/μs	2mA/μs~3.05A/μs	5mA/μs~6.1A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~61A	0~305A	0~610A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~560W	0~2800W	0~5600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	62.22A	311.1A	622.2A	
OPP	576.8W	2884W	5768W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	32.5kg			
Shipping Weight	41.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	250VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC6600W		
Rated	Voltage	0~200V		
	Current	0~720A		
	Power	0~6600W		
	Min. Operating Voltage	0.18V@72A	0.9V@360A	1.8V@720A
<b>Static Mode</b>				
Constant Current Mode	Range	0~72A	0~360A	0~720A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~660W	0~3300W	0~6600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	5mΩ~50Ω(16V)	20mΩ~200Ω(80V)	500mΩ~1000Ω(200V)
	Resolution	5mΩ(16V)	20mΩ(80V)	500mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~6A/μs	2mA/μs~18A/μs	5mA/μs~36A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.72A/μs	2mA/μs~3.6A/μs	5mA/μs~7.2A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~72A	0~360A	0~720A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~660W	0~3300W	0~6600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	73.44A	367.2A	734.4A	
OPP	679.8W	3399W	6798W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x177.0x610.0mm			
Package Dimensions(WxHxD)	665.0x392.0x918.0mm			
Unit Weight	38kg			
Shipping Weight	47kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	300VA			
Fuse	3.15A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC8800W		
Rated	Voltage	0~200V		
	Current	0~960A		
	Power	0~8800W		
	Min. Operating Voltage	0.18V@96A	0.9V@480A	1.8V@960A
<b>Static Mode</b>				
Constant Current Mode	Range	0~96A	0~480A	0~960A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~880W	0~4400W	0~8800W
	Resolution	20mW	100mW	200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	4mΩ~40Ω(16V)	15mΩ~150Ω(80V)	375mΩ~750Ω(200V)
	Resolution	4mΩ(16V)	15mΩ(80V)	375mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~7.2A/μs	5mA/μs~21A/μs	10mA/μs~42A/μs
	Slew Rate(Adv.)	1mA/μs~0.96A/μs	5mA/μs~4.8A/μs	10mA/μs~9.6A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~96A	0~480A	0~960A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~880W	0~4400W	0~8800W
	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	97.92A	489.6A	979.2A	
OPP	906.4W	4532W	9064W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	61.5kg			
Shipping Weight	81.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	450VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC11000W		
Rated	Voltage	0~200V		
	Current	0~1200A		
	Power	0~11000W		
	Min. Operating Voltage	0.18V@120A	0.9V@600A	1.8V@1200A
<b>Static Mode</b>				
Constant Current Mode	Range	0~120A	0~600A	0~1200A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1100W	0~5500W	0~11000W
	Resolution	20mW	100mW	200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	3mΩ~30Ω(16V)	12mΩ~120Ω(80V)	300mΩ~600Ω(200V)
	Resolution	3mΩ(16V)	12mΩ(80V)	300mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~8A/μs	5mA/μs~24A/μs	10mA/μs~48A/μs
	Slew Rate(Adv.)	1mA/μs~1.2A/μs	5mA/μs~6A/μs	10mA/μs~12A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~120A	0~600A	0~1200A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1100W	0~5500W	0~11000W
	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	122.4A	612A	1224A	
OPP	1133W	5665W	11330W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	67kg			
Shipping Weight	87kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	500VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC13200W		
Rated	Voltage	0~200V		
	Current	0~1440A		
	Power	0~13200W		
	Min. Operating Voltage	0.18V@144A	0.9V@720A	1.8V@1440A
<b>Static Mode</b>				
Constant Current Mode	Range	0~144A	0~720A	0~1440A
	Resolution	1mA	5mA	8mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1320W	0~6600W	0~13200W
	Resolution	40mW	200mW	400mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	2.5mΩ~25Ω(16V)	10mΩ~100Ω(80V)	250mΩ~500Ω(200V)
	Resolution	2.5mΩ(16V)	10mΩ(80V)	250mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~9.6A/μs	5mA/μs~28.8A/μs	10mA/μs~57.6A/μs
	Slew Rate(Adv.)	1mA/μs~1.44A/μs	5mA/μs~7.2A/μs	10mA/μs~14.4A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~144A	0~720A	0~1440A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1320W	0~6600W	0~13200W
	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	146.88A	734.4A	1468.8A	
OPP	1359.6W	6798W	13596W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	72.5kg			
Shipping Weight	92.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	550VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC15400W		
Rated	Voltage	0~200V		
	Current	0~1680A		
	Power	0~15400W		
	Min. Operating Voltage	0.18V@168A	0.9V@840A	1.8V@1680A
<b>Static Mode</b>				
Constant Current Mode	Range	0~168A	0~840A	0~1680A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1540W	0~7700W	0~15400W
	Resolution	40mW	200mW	400mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	2.5mΩ~25Ω(16V)	10mΩ~100Ω(80V)	250mΩ~500Ω(200V)
	Resolution	2.5mΩ(16V)	10mΩ(80V)	250mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~11.2A/μs	10mA/μs~32A/μs	20mA/μs~64A/μs
	Slew Rate(Adv.)	2mA/μs~1.68A/μs	10mA/μs~8.4A/μs	20mA/μs~16.8A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~168A	0~840A	0~1680A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1540W	0~7700W	0~15400W
	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	171.36A	856.8A	1713.6A	
OPP	1586.2W	7931W	15862W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	94.5kg			
Shipping Weight	116.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	700VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC17600W		
Rated	Voltage	0~200V		
	Current	0~1920A		
	Power	0~17600W		
	Min. Operating Voltage	0.18V@192A	0.9V@960A	1.8V@1920A
<b>Static Mode</b>				
Constant Current Mode	Range	0~192A	0~960A	0~1920A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1760W	0~8800W	0~17600W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	2mΩ~20Ω(16V)	7.5mΩ~75Ω(80V)	200mΩ~400Ω(200V)
	Resolution	2mΩ(16V)	7.5mΩ(80V)	200mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~12.8A/μs	10mA/μs~34A/μs	20mA/μs~68A/μs
	Slew Rate(Adv.)	2mA/μs~1.92A/μs	10mA/μs~9.6A/μs	20mA/μs~19.2A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~192A	0~960A	0~1920A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1760W	0~8800W	0~17600W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	195.84A	979.2A	1958.4A	
OPP	1812.8W	9064W	18128W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	100kg			
Shipping Weight	122kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	750VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC19800W		
Rated	Voltage	0~200V		
	Current	0~2160A		
	Power	0~19800W		
	Min. Operating Voltage	0.18V@216A	0.9V@1080A	1.8V@2160A
<b>Static Mode</b>				
Constant Current Mode	Range	0~216A	0~1080A	0~2160A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1980W	0~9900W	0~19800W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	1.7mΩ~16.7Ω(16V)	6.7mΩ~66.7Ω(80V)	166.7mΩ~333Ω(200V)
	Resolution	1.7mΩ(16V)	6.7mΩ(80V)	166.7mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~14.4A/μs	10mA/μs~36A/μs	20mA/μs~72A/μs
	Slew Rate(Adv.)	2mA/μs~2.16A/μs	10mA/μs~10.8A/μs	20mA/μs~21.6A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~216A	0~1080A	0~2160A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1980W	0~9900W	0~19800W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	220.32A	1101.6A	2203.2A	
OPP	2039.4W	10197W	20394W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	105.5kg			
Shipping Weight	127.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	800VA			
Fuse	8A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC22000W		
Rated	Voltage	0~200V		
	Current	0~2400A		
	Power	0~22000W		
	Min. Operating Voltage	0.18V@240A	0.9V@1200A	1.8V@2400A
<b>Static Mode</b>				
Constant Current Mode	Range	0~240A	0~1200A	0~2400A
	Resolution	4mA	20mA	40mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2200W	0~11000W	0~22000W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	1.5mΩ~15Ω(16V)	6mΩ~60Ω(80V)	150mΩ~300Ω(200V)
	Resolution	1.5mΩ(16V)	6mΩ(80V)	150mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	4mA/μs~16A/μs	20mA/μs~40A/μs	40mA/μs~80A/μs
	Slew Rate(Adv.)	4mA/μs~2.4A/μs	20mA/μs~12A/μs	40mA/μs~24A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	4mA/μs	20mA/μs	40mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~240A	0~1200A	0~2400A
	Resolution	4mA	20mA	40mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~2200W	0~11000W	0~22000W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	244.8A	1224A	2448A	
OPP	2266W	11330W	22660W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	129kg			
Shipping Weight	153kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	950VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC24200W		
Rated	Voltage	0~200V		
	Current	0~2640A		
	Power	0~24200W		
	Min. Operating Voltage	0.18V@264A	0.9V@1320A	1.8V@2064A
<b>Static Mode</b>				
Constant Current Mode	Range	0~264A	0~1320A	0~2640A
	Resolution	4mA	20mA	40mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2420W	0~12100W	0~24200W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	1.5mΩ~15Ω(16V)	6mΩ~60Ω(80V)	150mΩ~300Ω(200V)
	Resolution	1.5mΩ(16V)	6mΩ(80V)	150mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	4mA/μs~17.6A/μs	20mA/μs~44A/μs	40mA/μs~88A/μs
	Slew Rate(Adv.)	4mA/μs~2.64A/μs	20mA/μs~13.2A/μs	40mA/μs~26.4A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	4mA/μs	20mA/μs	40mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~264A	0~1320A	0~2640A
	Resolution	4mA	20mA	40mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~2420W	0~12100W	0~24200W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	269.28A	1346.4A	2692.8A	
OPP	2492.6W	12463W	24926W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	134.5kg			
Shipping Weight	158.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1000VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL200VDC26400W		
Rated	Voltage	0~200V		
	Current	0~2880A		
	Power	0~26400W		
	Min. Operating Voltage	0.18V@288A	0.9V@1440A	1.8V@2880A
Static Mode				
Constant Current Mode	Range	0~288A	0~1440A	0~2880A
	Resolution	4mA	20mA	40mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2640W	0~13200W	0~26400W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	1.3mΩ~12.5Ω(16V)	5mΩ~50Ω(80V)	125mΩ~250Ω(200V)
	Resolution	1.3mΩ(16V)	5mΩ(80V)	125mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
Dynamic Mode				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	4mA/μs~19.2A/μs	20mA/μs~48A/μs	40mA/μs~96A/μs
	Slew Rate(Adv.)	4mA/μs~2.88A/μs	20mA/μs~14.4A/μs	40mA/μs~28.8A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	4mA/μs	20mA/μs	40mA/μs
	Accuracy	5%±10us		
Measurement				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~288A	0~1440A	0~2880A
	Resolution	4mA	20mA	40mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~2640W	0~13200W	0~26400W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
Protection				
OVP	17.6V	88V	220V	
OCP	293.76A	1468.8A	2937.6A	
OPP	2719.2W	13596W	27192W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	140kg			
Shipping Weight	164kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1050VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

200V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
<b>Program Mode</b>			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
<b>External Waveform Control/Monitor</b>			
Control/Monitor	Voltage/Current		
Input/Output Range	0~10V		
Voltage Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy	0.4%F.S.		
Resolution	4mV		
Bandwidth	20kHz		
Input Impedance	10kΩ		
<b>Short Circuit</b>			
Current(CC)	Full range current value		
Voltage(CV)	Voltage value at the Max power in working mode		
Resistance(CR)	Min resistance value of CR Mode		
<b>Master/Slave</b>			
Parallel Interface	RJ45		
Parallel Quantity (Pro.)	20 units		
Parallel Quantity (Adv.)	20 units		
<b>General</b>			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature Control		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional)		
Communication Response Time	30ms		
Storage Capacity	User defined settings (300 sets), OCP settings (10 sets), OPP settings (10 sets), Default settings (1 set), Factory setting (1 set)		
<b>Environmental</b>			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	<2000m		
<b>Regulatory Compliance</b>			
Overvoltage Category	II		
Protection Degree	I		
Pollution Degree	II		
Input Impedance	800kΩ(Typical)		
Isolation Voltage	/		
Certificates	CE		

All specifications are subject to change without notice.

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC600W		
Rated	Voltage	0~600V		
	Current	0~40A		
	Power	0~600W		
	Min. Operating Voltage	0.8V@4A	0.9V@20A	1.8V@40A
<b>Static Mode</b>				
Constant Current Mode	Range	0~4A	0~20A	0~40A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~60W	0~300W	0~600W
	Resolution	1mW	5mW	10mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	400mΩ~4000Ω(80V)	1600mΩ~16000Ω(150V)	16000mΩ~32000Ω(600V)
	Resolution	400mΩ(80V)	1600mΩ(150V)	16000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~0.18A/μs	0.5mA/μs~0.9A/μs	1mA/μs~1.8A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.04A/μs	0.5mA/μs~0.2A/μs	1mA/μs~0.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	1mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~4A	0~20A	0~40A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~60W	0~300W	0~600W
	Resolution	1mW	5mW	10mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	4.08A	20.4A	40.8A	
OPP	61.8W	309W	618W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	18kg			
Shipping Weight	27kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	100VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC1200W		
Rated	Voltage	0~600V		
	Current	0~90A		
	Power	0~1200W		
	Min. Operating Voltage	0.8V@9A	4V@45A	8V@90A
<b>Static Mode</b>				
Constant Current Mode	Range	0~9A	0~45A	0~90A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~120W	0~600W	0~1200W
	Resolution	2mW	10mW	20mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	275mΩ~2750Ω(80V)	1100mΩ~11000Ω(150V)	11000mΩ~22000Ω(600V)
	Resolution	275mΩ(80V)	1100mΩ(150V)	11000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~0.36A/μs	0.5mA/μs~1.8A/μs	1mA/μs~3.6A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.09A/μs	0.5mA/μs~0.45A/μs	1mA/μs~0.9A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	1mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~9A	0~45A	0~90A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~120W	0~600W	0~1200W
	Resolution	2mW	10mW	20mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	9.18A	45.9A	91.8A	
OPP	123.6W	618W	1236W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	20kg			
Shipping Weight	29kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	125VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC1800W		
Rated	Voltage	0~600V		
	Current	0~130A		
	Power	0~1800W		
	Min. Operating Voltage	0.8V@13A	4V@65A	8V@130A
<b>Static Mode</b>				
Constant Current Mode	Range	0~13A	0~65A	0~130A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~180W	0~900W	0~1800W
	Resolution	2mW	10mW	20mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	200mΩ~2000Ω(80V)	800mΩ~8000Ω(150V)	8000mΩ~16000Ω(600V)
	Resolution	200mΩ(80V)	800mΩ(150V)	8000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~0.6A/μs	0.5mA/μs~3A/μs	1mA/μs~6A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.13A/μs	0.5mA/μs~0.65A/μs	1mA/μs~1.3A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	1mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~13A	0~65A	0~130A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~180W	0~900W	0~1800W
	Resolution	2mW	10mW	20mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	13.26A	66.3A	132.6A	
OPP	185.4W	927W	1854W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	22kg			
Shipping Weight	31kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	125VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC2400W		
Rated	Voltage	0~600V		
	Current	0~180A		
	Power	0~2400W		
	Min. Operating Voltage	0.8V@18A	4V@90A	8V@180A
<b>Static Mode</b>				
Constant Current Mode	Range	0~18A	0~90A	0~180A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~240W	0~1200W	0~2400W
	Resolution	5mW	25mW	50mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	137.5mΩ~1375Ω(80V)	550mΩ~5500Ω(150V)	5500mΩ~11000Ω(600V)
	Resolution	137.5mΩ(80V)	550mΩ(150V)	5500mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.2mA/μs~0.72A/μs	1mA/μs~3.6A/μs	2mA/μs~7.2A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.18A/μs	1mA/μs~0.9A/μs	2mA/μs~1.8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.2mA/μs	1mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~18A	0~90A	0~180A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~240W	0~1200W	0~2400W
	Resolution	5mW	25mW	50mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	18.36A	91.8A	183.6A	
OPP	247.2W	1236W	2472W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	24kg			
Shipping Weight	33kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	150VA			
Fuse	2.5A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC3000W		
Rated	Voltage	0~600V		
	Current	0~220A		
	Power	0~3000W		
	Min. Operating Voltage	0.8V@22A	4V@110A	8V@220A
<b>Static Mode</b>				
Constant Current Mode	Range	0~22A	0~110A	0~220A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~300W	0~1500W	0~3000W
	Resolution	5mW	25mW	50mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	110mΩ~1100Ω(80V)	440mΩ~4400Ω(150V)	4400mΩ~8800Ω(600V)
	Resolution	110mΩ(80V)	440mΩ(150V)	4400mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.2mA/μs~0.9A/μs	1mA/μs~4.5A/μs	2mA/μs~9A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.22A/μs	1mA/μs~1.1A/μs	2mA/μs~2.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.2mA/μs	1mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~22A	0~110A	0~220A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~300W	0~1500W	0~3000W
	Resolution	5mW	25mW	50mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	22.44A	112.2A	224.4A	
OPP	309W	1545W	3090W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	26kg			
Shipping Weight	35kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	150VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC3400W		
Rated	Voltage	0~600V		
	Current	0~250A		
	Power	0~3400W		
	Min. Operating Voltage	0.8V@25A	4V@125A	8V@250A
<b>Static Mode</b>				
Constant Current Mode	Range	0~25A	0~125A	0~250A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~340W	0~1700W	0~3400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	100mΩ~1000Ω(80V)	400mΩ~4000Ω(150V)	4000mΩ~8000Ω(600V)
	Resolution	100mΩ(80V)	400mΩ(150V)	4000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1A/μs	2mA/μs~5A/μs	4mA/μs~10A/μs
	Slew Rate(Adv.)	0.4mA/μs~0.25A/μs	2mA/μs~1.25A/μs	4mA/μs~2.5A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/μs	2mA/μs	4mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~25A	0~125A	0~250A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~340W	0~1700W	0~3400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	25.5A	127.5A	255A	
OPP	350.2W	1751W	3502W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	27kg			
Shipping Weight	36kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	200VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC4400W		
Rated	Voltage	0~600V		
	Current	0~320A		
	Power	0~4400W		
	Min. Operating Voltage	0.8V@32A	4V@160A	8V@320A
<b>Static Mode</b>				
Constant Current Mode	Range	0~32A	0~160A	0~320A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~440W	0~2200W	0~4400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	75mΩ~750Ω(80V)	300mΩ~3000Ω(150V)	3000mΩ~6000Ω(600V)
	Resolution	75mΩ(80V)	300mΩ(150V)	3000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1.28A/μs	2mA/μs~6.4A/μs	4mA/μs~12.8A/μs
	Slew Rate(Adv.)	0.4mA/μs~0.32A/μs	2mA/μs~1.6A/μs	4mA/μs~3.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/μs	2mA/μs	4mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~32A	0~160A	0~320A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~440W	0~2200W	0~4400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	32.6A	163.2A	326.4A	
OPP	453.2W	2266W	4532W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	28.5kg			
Shipping Weight	37.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	250VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC5600W		
Rated	Voltage	0~600V		
	Current	0~410A		
	Power	0~5600W		
	Min. Operating Voltage	0.8V@41A	4V@205A	8V@410A
<b>Static Mode</b>				
Constant Current Mode	Range	0~41A	0~205A	0~410A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~560W	0~2800W	0~5600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	60mΩ~600Ω(80V)	250mΩ~2500Ω(150V)	2500mΩ~5000Ω(600V)
	Resolution	60mΩ(80V)	250mΩ(150V)	2500mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1.64A/μs	2mA/μs~8.2A/μs	4mA/μs~16.4A/μs
	Slew Rate(Adv.)	0.4mA/μs~0.41A/μs	2mA/μs~2.05A/μs	4mA/μs~4.1A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/μs	2mA/μs	4mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~41A	0~205A	0~410A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~560W	0~2800W	0~5600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	41.82A	209.1A	418.2A	
OPP	576.8W	2884W	5768W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	32.5kg			
Shipping Weight	41.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	250VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC6600W		
Rated	Voltage	0~600V		
	Current	0~480A		
	Power	0~6600W		
	Min. Operating Voltage	0.8V@48A	4V@240A	8V@480A
<b>Static Mode</b>				
Constant Current Mode	Range	0~48A	0~240A	0~480A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~660W	0~3300W	0~6600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	50mΩ~500Ω(80V)	200mΩ~2000Ω(150V)	2000mΩ~4000Ω(600V)
	Resolution	50mΩ(80V)	200mΩ(150V)	2000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~1.92A/μs	2mA/μs~9.6A/μs	5mA/μs~19.2A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.48A/μs	2mA/μs~2.4A/μs	5mA/μs~4.8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~48A	0~240A	0~480A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~660W	0~3300W	0~6600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	48.96A	244.8A	489.6A	
OPP	679.8W	3399W	6798W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x177.0x610.0mm			
Package Dimensions(WxHxD)	665.0x392.0x918.0mm			
Unit Weight	38kg			
Shipping Weight	47kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	300VA			
Fuse	3.15A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC8800W		
Rated	Voltage	0~600V		
	Current	0~640A		
	Power	0~8800W		
	Min. Operating Voltage	0.8V@64A	4V@320A	8V@640A
<b>Static Mode</b>				
Constant Current Mode	Range	0~64A	0~320A	0~640A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~880W	0~4400W	0~8800W
	Resolution	20mW	100mW	200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	37.5mΩ~375Ω(80V)	150mΩ~1500Ω(150V)	1500mΩ~3000Ω(600V)
	Resolution	37.5mΩ(80V)	150mΩ(150V)	1500mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~2A/μs	2mA/μs~10A/μs	5mA/μs~20A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.64A/μs	2mA/μs~3.2A/μs	5mA/μs~6.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~64A	0~320A	0~640A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~880W	0~4400W	0~8800W
	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	65.28A	326.4A	652.8A	
OPP	906.4W	4532W	9064W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	61.5kg			
Shipping Weight	81.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	450VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC11000W		
Rated	Voltage	0~600V		
	Current	0~800A		
	Power	0~11000W		
	Min. Operating Voltage	0.8V@80A	4V@400A	8V@800A
<b>Static Mode</b>				
Constant Current Mode	Range	0~80A	0~400A	0~800A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1100W	0~5500W	0~11000W
	Resolution	20mW	100mW	200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	30mΩ~300Ω(80V)	120mΩ~1200Ω(150V)	1200mΩ~2400Ω(600V)
	Resolution	30mΩ(80V)	120mΩ(150V)	1200mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~2.5A/μs	5mA/μs~12.5A/μs	10mA/μs~25A/μs
	Slew Rate(Adv.)	1mA/μs~0.8A/μs	5mA/μs~4A/μs	10mA/μs~8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~80A	0~400A	0~800A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1100W	0~5500W	0~11000W
	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	81.6A	408A	816A	
OPP	1133W	5665W	11330W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	67kg			
Shipping Weight	87kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	500VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC13200W		
Rated	Voltage	0~600V		
	Current	0~960A		
	Power	0~13200W		
	Min. Operating Voltage	0.8V@96A	4V@480A	8V@960A
<b>Static Mode</b>				
Constant Current Mode	Range	0~96A	0~480A	0~960A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1320W	0~6600W	0~13200W
	Resolution	40mW	200mW	400mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	25mΩ~250Ω(80V)	100mΩ~1000Ω(150V)	1000mΩ~2000Ω(600V)
	Resolution	25mΩ(80V)	100mΩ(150V)	1000mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2%IF.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~3A/μs	5mA/μs~15A/μs	10mA/μs~30A/μs
	Slew Rate(Adv.)	1mA/μs~0.96A/μs	5mA/μs~4.8A/μs	10mA/μs~9.6A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~96A	0~480A	0~960A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1320W	0~6600W	0~13200W
	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	97.92A	489.6A	979.2A	
OPP	1359.6W	6798W	13596W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	72.5kg			
Shipping Weight	92.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	550VA			
Fuse	5A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC15400W		
Rated	Voltage	0~600V		
	Current	0~1120A		
	Power	0~15400W		
	Min. Operating Voltage	0.8V@112A	4V@560A	8V@1120A
<b>Static Mode</b>				
Constant Current Mode	Range	0~112A	0~560A	0~1120A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1540W	0~7700W	0~15400W
	Resolution	40mW	200mW	400mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	21mΩ~210Ω(80V)	85mΩ~850Ω(150V)	850mΩ~1700Ω(600V)
	Resolution	21mΩ(80V)	85mΩ(150V)	850mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~3.2A/μs	5mA/μs~16A/μs	10mA/μs~32A/μs
	Slew Rate(Adv.)	1mA/μs~1.12A/μs	5mA/μs~5.6A/μs	10mA/μs~11.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~112A	0~560A	0~1120A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1540W	0~7700W	0~15400W
	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	114.24A	571.2A	1142.4A	
OPP	1586.2W	7931W	15862W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	94.5kg			
Shipping Weight	116.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	700VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC17600W		
Rated	Voltage	0~600V		
	Current	0~1280A		
	Power	0~17600W		
	Min. Operating Voltage	0.8V@128A	4V@640A	8V@1280A
<b>Static Mode</b>				
Constant Current Mode	Range	0~128A	0~640A	0~1280A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1760W	0~8800W	0~17600W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	18.7mΩ~187Ω(80V)	75mΩ~750Ω(150V)	750mΩ~1500Ω(600V)
	Resolution	18.7mΩ(80V)	75mΩ(150V)	750mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~3.4A/μs	5mA/μs~17A/μs	10mA/μs~34A/μs
	Slew Rate(Adv.)	1mA/μs~1.28A/μs	5mA/μs~6.4A/μs	10mA/μs~12.8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~128A	0~640A	0~1280A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1760W	0~8800W	0~17600W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	130.56A	652.8A	1305.6A	
OPP	1812.8W	9064W	18128W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	100kg			
Shipping Weight	122kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	750VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC19800W		
Rated	Voltage	0~600V		
	Current	0~1440A		
	Power	0~19800W		
	Min. Operating Voltage	0.8V@144A	4V@720A	8V@1440A
<b>Static Mode</b>				
Constant Current Mode	Range	0~144A	0~720A	0~1440A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1980W	0~9900W	0~19800W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	16.7mΩ~166.7Ω(80V)	66.7mΩ~666.7Ω(150V)	666.7mΩ~1333Ω(600V)
	Resolution	16.7mΩ(80V)	66.7mΩ(150V)	666.7mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~3.6A/μs	10mA/μs~18A/μs	20mA/μs~36A/μs
	Slew Rate(Adv.)	2mA/μs~1.44A/μs	10mA/μs~7.2A/μs	20mA/μs~14.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~144A	0~720A	0~1440A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~1980W	0~9900W	0~19800W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	146.88A	734.4A	1468.8A	
OPP	2039.4W	10197W	20394W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	105.5kg			
Shipping Weight	127.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	800VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC22000W		
Rated	Voltage	0~600V		
	Current	0~1600A		
	Power	0~22000W		
	Min. Operating Voltage	0.8V@160A	4V@800A	8V@1600A
<b>Static Mode</b>				
Constant Current Mode	Range	0~160A	0~800A	0~1600A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2200W	0~11000W	0~22000W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	15mΩ~150Ω(80V)	60mΩ~600Ω(150V)	600mΩ~1200Ω(600V)
	Resolution	15mΩ(80V)	60mΩ(150V)	600mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~3.8A/μs	10mA/μs~19A/μs	20mA/μs~38A/μs
	Slew Rate(Adv.)	2mA/μs~1.6A/μs	10mA/μs~8A/μs	20mA/μs~16A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~160A	0~800A	0~1600A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~2200W	0~11000W	0~22000W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	163.2A	816A	1632A	
OPP	2266W	11330W	22660W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	129kg			
Shipping Weight	153kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	950VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC24200W		
Rated	Voltage	0~600V		
	Current	0~1760A		
	Power	0~24200W		
	Min. Operating Voltage	0.8V@176A	4V@880A	8V@1760A
<b>Static Mode</b>				
Constant Current Mode	Range	0~176A	0~880A	0~1760A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2420W	0~12100W	0~24200W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	13.6mΩ~136Ω(80V)	55mΩ~550Ω(150V)	550mΩ~1100Ω(600V)
	Resolution	13.6mΩ(80V)	55mΩ(150V)	550mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~4A/μs	10mA/μs~20A/μs	20mA/μs~40A/μs
	Slew Rate(Adv.)	2mA/μs~1.76A/μs	10mA/μs~8.8A/μs	20mA/μs~17.6A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~176A	0~880A	0~1760A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~2420W	0~12100W	0~24200W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	179.52A	897.6A	1795.2A	
OPP	2492.6W	12463W	24926W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	134.5kg			
Shipping Weight	158.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1000VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL600VDC26400W		
Rated	Voltage	0~600V		
	Current	0~1920A		
	Power	0~26400W		
	Min. Operating Voltage	0.8V@192A	4V@960A	8V@1920A
<b>Static Mode</b>				
Constant Current Mode	Range	0~192A	0~960A	0~1920A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2640W	0~13200W	0~26400W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	12.5mΩ~125Ω(80V)	50mΩ~500Ω(150V)	500mΩ~1000Ω(600V)
	Resolution	12.5mΩ(80V)	50mΩ(150V)	500mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~4.2A/μs	10mA/μs~21A/μs	20mA/μs~42A/μs
	Slew Rate(Adv.)	2mA/μs~1.92A/μs	10mA/μs~9.6A/μs	20mA/μs~19.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~192A	0~960A	0~1920A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~2640W	0~13200W	0~26400W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	195.84A	979.2A	1958.4A	
OPP	2719.2W	13596W	27192W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	140kg			
Shipping Weight	164kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1050VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

600V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
<b>Program Mode</b>			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
<b>External Waveform Control/Monitor</b>			
Control/Monitor	Voltage/Current		
Input/Output Range	0~10V		
Voltage Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy	0.4%F.S.		
Resolution	4mV		
Bandwidth	20kHz		
Input Impedance	10kΩ		
<b>Short Circuit</b>			
Current(CC)	Full range current value		
Voltage(CV)	Voltage value at the Max power in working mode		
Resistance(CR)	Min resistance value of CR Mode		
<b>Master/Slave</b>			
Parallel Interface	RJ45		
Parallel Quantity (Pro.)	20 units		
Parallel Quantity (Adv.)	20 units		
<b>General</b>			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature Control		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional)		
Communication Response Time	30ms		
Storage Capacity	User defined settings (300 sets), OCP settings (10 sets), OPP settings (10 sets), Default settings (1 set), Factory setting (1 set)		
<b>Environmental</b>			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	<2000m		
<b>Regulatory Compliance</b>			
Overvoltage Category	II		
Protection Degree	I		
Pollution Degree	II		
Input Impedance	1MΩ(Typical)		
Isolation Voltage	/		
Certificates	CE		

All specifications are subject to change without notice.

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC1200W		
Rated	Voltage	0~1200V		
	Current	0~45A		
	Power	0~1200W		
	Min. Operating Voltage	2V@4.5A	10V@22.5A	20V@45A
<b>Static Mode</b>				
Constant Current Mode	Range	0~4.5A	0~22.5A	0~45A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~120W	0~600W	0~1200W
	Resolution	2mW	10mW	20mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	275mΩ~2750Ω(150V)	1100mΩ~11000Ω(600V)	11000mΩ~22000Ω(1200V)
	Resolution	275mΩ(150V)	1100mΩ(600V)	11000mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~0.225A/μs	0.5mA/μs~1.125A/μs	1mA/μs~2.25A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.045A/μs	0.5mA/μs~0.225A/μs	1mA/μs~0.45A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	1mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~4.5A	0~22.5A	0~45A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~120W	0~600W	0~1200W
	Resolution	2mW	10mW	20mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	4.59A	22.95A	45.9A	
OPP	123.6W	618W	1236W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	20kg			
Shipping Weight	29kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	125VA			
Fuse	2.5A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC2400W		
Rated	Voltage	0~1200V		
	Current	0~90A		
	Power	0~2400W		
	Min. Operating Voltage	2V@9A	10V@45A	20V@90A
<b>Static Mode</b>				
Constant Current Mode	Range	0~9A	0~45A	0~90A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~240W	0~1200W	0~2400W
	Resolution	5mW	25mW	50mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	137.5mΩ~1375Ω(150V)	550mΩ~5500Ω(600V)	5500mΩ~11000Ω(1200V)
	Resolution	150mΩ(150V)	600mΩ(600V)	6000mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.1mA/μs~0.45A/μs	0.5mA/μs~2.25A/μs	1mA/μs~4.5A/μs
	Slew Rate(Adv.)	0.1mA/μs~0.09A/μs	0.5mA/μs~0.45A/μs	1mA/μs~0.9A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.1mA/μs	0.5mA/μs	1mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~9A	0~45A	0~90A
	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~240W	0~1200W	0~2400W
	Resolution	5mW	25mW	50mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	9.18A	45.9A	91.8A	
OPP	247.2W	1236W	2472W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x88.0x610.0mm			
Package Dimensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight	24kg			
Shipping Weight	33kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	150VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC3400W		
Rated	Voltage	0~1200V		
	Current	0~125A		
	Power	0~3400W		
	Min. Operating Voltage	2V@12.5A	10V@62.5A	20V@125A
<b>Static Mode</b>				
Constant Current Mode	Range	0~12.5A	0~62.5A	0~125A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~340W	0~1700W	0~3400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	100mΩ~1000Ω(150V)	400mΩ~4000Ω(600V)	4000mΩ~8000Ω(1200V)
	Resolution	100mΩ(150V)	400mΩ(600V)	4000mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.2mA/μs~0.625A/μs	1mA/μs~3.125A/μs	2mA/μs~6.25A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.125A/μs	1mA/μs~0.625A/μs	2mA/μs~1.25A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.2mA/μs	1mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~12.5A	0~62.5A	0~125A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~340W	0~1700W	0~3400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	12.75A	63.75A	127.5A	
OPP	350.2W	1751W	3502W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	27kg			
Shipping Weight	36kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	200VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC4400W		
Rated	Voltage	0~1200V		
	Current	0~160A		
	Power	0~4400W		
	Min. Operating Voltage	2V@16A	10V@80A	20V@160A
<b>Static Mode</b>				
Constant Current Mode	Range	0~16A	0~80A	0~160A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~440W	0~2200W	0~4400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	75mΩ~750Ω(150V)	300mΩ~3000Ω(600V)	3000mΩ~6000Ω(1200V)
	Resolution	75mΩ(150V)	300mΩ(600V)	3000mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.2mA/μs~0.8A/μs	1mA/μs~4A/μs	2mA/μs~8A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.16A/μs	1mA/μs~0.8A/μs	2mA/μs~1.6A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.2mA/μs	1mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~16A	0~80A	0~160A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~440W	0~2200W	0~4400W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	16.32A	81.6A	163.2A	
OPP	453.2W	2266W	4532W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	28.5kg			
Shipping Weight	37.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	250VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC5600W		
Rated	Voltage	0~1200V		
	Current	0~205A		
	Power	0~5600W		
	Min. Operating Voltage	2V@20.5A	10V@102.5A	20V@205A
<b>Static Mode</b>				
Constant Current Mode	Range	0~20.5A	0~102.5A	0~205A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~560W	0~2800W	0~5600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	60mΩ~600Ω(150V)	235mΩ~2300Ω(600V)	2350mΩ~4700Ω(1200V)
	Resolution	60mΩ(150V)	235mΩ(600V)	2350mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.2mA/μs~1.025A/μs	1mA/μs~5.125A/μs	2mA/μs~10.25A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.205A/μs	1mA/μs~1.025A/μs	2mA/μs~2.05A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.2mA/μs	1mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~20.5A	0~102.5A	0~205A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~560W	0~2800W	0~5600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	20.91A	104.55A	209.1A	
OPP	576.8W	2884W	5768W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x133.0x610.0mm			
Package Dimensions(WxHxD)	665.0x348.0x918.0mm			
Unit Weight	32.5kg			
Shipping Weight	41.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	250VA			
Fuse	2.5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC6600W		
Rated	Voltage	0~1200V		
	Current	0~240A		
	Power	0~6600W		
	Min. Operating Voltage	2V@24A	10V@120A	20V@240A
<b>Static Mode</b>				
Constant Current Mode	Range	0~24A	0~120A	0~240A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~660W	0~3300W	0~6600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	50mΩ~500Ω(150V)	200mΩ~2000Ω(600V)	2000mΩ~4000Ω(1200V)
	Resolution	50mΩ(150V)	200mΩ(600V)	2000mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.2mA/μs~1.2A/μs	1mA/μs~6A/μs	2mA/μs~12A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.24A/μs	1mA/μs~1.2A/μs	2mA/μs~2.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.2mA/μs	1mA/μs	2mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~24A	0~120A	0~240A
	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~660W	0~3300W	0~6600W
	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	24.48A	122.4A	244.8A	
OPP	679.8W	3399W	6798W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x177.0x610.0mm			
Package Dimensions(WxHxD)	665.0x392.0x918.0mm			
Unit Weight	38kg			
Shipping Weight	47kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	300VA			
Fuse	3.15A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC8800W		
Rated	Voltage	0~1200V		
	Current	0~320A		
	Power	0~8800W		
	Min. Operating Voltage	2V@32A	10V@160A	20V@320A
<b>Static Mode</b>				
Constant Current Mode	Range	0~32A	0~160A	0~320A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~880W	0~4400W	0~8800W
	Resolution	20mW	100mW	200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	37.5mΩ~375Ω(150V)	150mΩ~1500Ω(600V)	1500mΩ~3000Ω(1200V)
	Resolution	37.5mΩ(150V)	150mΩ(600V)	1500mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1.28A/μs	2mA/μs~6.4A/μs	4mA/μs~12.8A/μs
	Slew Rate(Adv.)	0.4mA/μs~0.32A/μs	2mA/μs~1.6A/μs	4mA/μs~3.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/μs	2mA/μs	4mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~32A	0~160A	0~320A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~880W	0~4400W	0~8800W
	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	32.64A	163.2A	326.4A	
OPP	906.4W	4532W	9064W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	61.5kg			
Shipping Weight	81.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	450VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC11000W		
Rated	Voltage	0~1200V		
	Current	0~400A		
	Power	0~11000W		
	Min. Operating Voltage	2V@40A	10V@200A	20V@400A
<b>Static Mode</b>				
Constant Current Mode	Range	0~40A	0~200A	0~400A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1100W	0~5500W	0~11000W
	Resolution	20mW	100mW	200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	30mΩ~300Ω(150V)	120mΩ~1200Ω(600V)	1200mΩ~2400Ω(1200V)
	Resolution	30mΩ(150V)	120mΩ(600V)	1200mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1.44A/μs	2mA/μs~7.2A/μs	4mA/μs~14.4A/μs
	Slew Rate(Adv.)	0.4mA/μs~0.4A/μs	2mA/μs~2A/μs	4mA/μs~4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/μs	2mA/μs	4mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~40A	0~200A	0~400A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~1100W	0~5500W	0~11000W
	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	40.8A	204A	408A	
OPP	1133W	5665W	11330W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	67kg			
Shipping Weight	87kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	500VA			
Fuse	5A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC13200W		
Rated	Voltage	0~1200V		
	Current	0~480A		
	Power	0~13200W		
	Min. Operating Voltage	2V@48A	10V@240A	20V@480A
<b>Static Mode</b>				
Constant Current Mode	Range	0~48A	0~240A	0~480A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1320W	0~6600W	0~13200W
	Resolution	40mW	200mW	400mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	25mΩ~250Ω(150V)	100mΩ~1000Ω(600V)	1000mΩ~2000Ω(1200V)
	Resolution	25mΩ(150V)	100mΩ(600V)	1000mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1.6A/μs	2mA/μs~8A/μs	4mA/μs~16A/μs
	Slew Rate(Adv.)	0.4mA/μs~0.48A/μs	2mA/μs~2.4A/μs	4mA/μs~4.8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/μs	2mA/μs	4mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~48A	0~240A	0~480A
	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~1320W	0~6600W	0~13200W
	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	48.96A	244.8A	489.6A	
OPP	1359.6W	6798W	13596W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x311.0x670.0mm			
Package Dimensions(WxHxD)	541.0x591.0x891.0mm			
Unit Weight	72.5kg			
Shipping Weight	92.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	550VA			
Fuse	5A			



# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC15400W		
Rated	Voltage	0~1200V		
	Current	0~560A		
	Power	0~15400W		
	Min. Operating Voltage	2V@56A	10V@280A	20V@560A
<b>Static Mode</b>				
Constant Current Mode	Range	0~56A	0~280A	0~560A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1540W	0~7700W	0~15400W
	Resolution	40mW	200mW	400mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	21mΩ~210Ω(150V)	85mΩ~850Ω(600V)	850mΩ~1700Ω(1200V)
	Resolution	21mΩ(150V)	85mΩ(600V)	850mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~1.8A/μs	2mA/μs~9A/μs	5mA/μs~18A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.56A/μs	2mA/μs~2.8A/μs	5mA/μs~5.6A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~56A	0~280A	0~560A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~1540W	0~7700W	0~15400W
	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	57.12A	285.6A	571.2A	
OPP	1586.2W	7931W	15862W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	94.5kg			
Shipping Weight	116.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	700VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC17600W		
Rated	Voltage	0~1200V		
	Current	0~640A		
	Power	0~17600W		
	Min. Operating Voltage	2V@64A	10V@320A	20V@640A
<b>Static Mode</b>				
Constant Current Mode	Range	0~64A	0~320A	0~640A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1760W	0~8800W	0~17600W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	18.7mΩ~187Ω(150V)	75mΩ~750Ω(600V)	750mΩ~1500Ω(1200V)
	Resolution	18.7mΩ(150V)	75mΩ(600V)	750mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~1.92A/μs	2mA/μs~9.6A/μs	5mA/μs~19.2A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.64A/μs	2mA/μs~3.2A/μs	5mA/μs~6.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~64A	0~320A	0~640A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~1760W	0~8800W	0~17600W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	65.28A	326.4A	652.8A	
OPP	1812.8W	9064W	18128W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	100kg			
Shipping Weight	122kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	750VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC19800W		
Rated	Voltage	0~1200V		
	Current	0~720A		
	Power	0~19800W		
	Min. Operating Voltage	2V@72A	10V@360A	20V@720A
<b>Static Mode</b>				
Constant Current Mode	Range	0~72A	0~360A	0~720A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~1980W	0~9900W	0~19800W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	16.7mΩ~166.7Ω(150V)	66.7mΩ~666Ω(600V)	666.7mΩ~1333Ω(1200V)
	Resolution	16.7mΩ(150V)	66.7mΩ(600V)	666.7mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~2A/μs	2mA/μs~10A/μs	5mA/μs~20A/μs
	Slew Rate(Adv.)	0.5mA/μs~0.72A/μs	2mA/μs~3.6A/μs	5mA/μs~7.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.5mA/μs	2mA/μs	5mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~72A	0~360A	0~720A
	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~1980W	0~9900W	0~19800W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	73.44A	367.2A	734.4A	
OPP	2039.4W	10197W	20394W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x444.0x670.0mm			
Package Dimensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	105.5kg			
Shipping Weight	127.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	800VA			
Fuse	8A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC22000W		
Rated	Voltage	0~1200V		
	Current	0~800A		
	Power	0~22000W		
	Min. Operating Voltage	2V@80A	10V@400A	20V@800A
<b>Static Mode</b>				
Constant Current Mode	Range	0~80A	0~400A	0~800A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2200W	0~11000W	0~22000W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	15mΩ~150Ω(150V)	60mΩ~600Ω(600V)	600mΩ~1200Ω(1200V)
	Resolution	15mΩ(150V)	60mΩ(600V)	600mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~2.1A/μs	5mA/μs~10.5A/μs	10mA/μs~21A/μs
	Slew Rate(Adv.)	1mA/μs~0.8A/μs	5mA/μs~4A/μs	10mA/μs~8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~80A	0~400A	0~800A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~2200W	0~11000W	0~22000W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	81.6A	408A	816A	
OPP	2266W	11330W	22660W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	129kg			
Shipping Weight	153kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	950VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC24200W		
Rated	Voltage	0~1200V		
	Current	0~880A		
	Power	0~24200W		
	Min. Operating Voltage	2V@88A	10V@440A	20V@880A
<b>Static Mode</b>				
Constant Current Mode	Range	0~88A	0~440A	0~880A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2420W	0~12100W	0~24200W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	13.6mΩ~136Ω(150V)	55mΩ~550Ω(600V)	550mΩ~1100Ω(1200V)
	Resolution	13.6mΩ(150V)	55mΩ(600V)	550mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~2.2A/μs	5mA/μs~11A/μs	10mA/μs~22A/μs
	Slew Rate(Adv.)	1mA/μs~0.88A/μs	5mA/μs~4.4A/μs	10mA/μs~8.8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~88A	0~440A	0~880A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~2420W	0~12100W	0~24200W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	89.76A	448.8A	897.6A	
OPP	2492.6W	12463W	24926W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	134.5kg			
Shipping Weight	158.5kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1000VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

MODEL		EL1200VDC26400W		
Rated	Voltage	0~1200V		
	Current	0~960A		
	Power	0~26400W		
	Min. Operating Voltage	2V@96A	10V@480A	20V@960A
<b>Static Mode</b>				
Constant Current Mode	Range	0~96A	0~480A	0~960A
	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~2640W	0~13200W	0~26400W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	12.5mΩ~125Ω(150V)	50mΩ~500Ω(600V)	500mΩ~1000Ω(1200V)
	Resolution	12.5mΩ(150V)	50mΩ(600V)	500mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1mA/μs~2.4A/μs	5mA/μs~12A/μs	10mA/μs~24A/μs
	Slew Rate(Adv.)	1mA/μs~0.96A/μs	5mA/μs~4.8A/μs	10mA/μs~9.6A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1mA/μs	5mA/μs	10mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~96A	0~480A	0~960A
	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~2640W	0~13200W	0~26400W
	Resolution	100mW	500mW	1000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	97.92A	489.6A	979.2A	
OPP	2719.2W	13596W	27192W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	423.0x577.0x670.0mm			
Package Dimensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	140kg			
Shipping Weight	164kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1050VA			
Fuse	10A			

# EL Series High-density Programmable DC Electronic Load

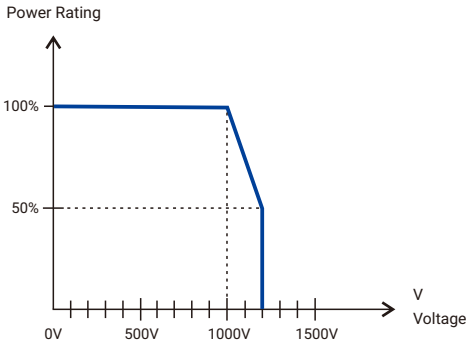
1200V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
<b>Program Mode</b>			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
<b>External Waveform Control/Monitor</b>			
Control/Monitor	Voltage/Current		
Input/Output Range	0~10V		
Voltage Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy	0.4%F.S.		
Resolution	4mV		
Bandwidth	20kHz		
Input Impedance	10kΩ		
<b>Short Circuit</b>			
Current(CC)	Full range current value		
Voltage(CV)	Voltage value at the Max power in working mode		
Resistance(CR)	Min resistance value of CR Mode		
<b>Master/Slave</b>			
Parallel Interface	RJ45		
Parallel Quantity (Pro.)	20 units		
Parallel Quantity (Adv.)	20 units		
<b>General</b>			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature Control		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional)		
Communication Response Time	30ms		
Storage Capacity	User defined settings (300 sets), OCP settings (10 sets), OPP settings (10 sets), Default settings (1 set), Factory setting (1 set)		
<b>Environmental</b>			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	≤2000m		
<b>Regulatory Compliance</b>			
Overvoltage Category	II		
Protection Degree	I		
Pollution Degree	II		
Input Impedance	2MΩ(Typical)		
Isolation Voltage	/		
Certificates	CE		

All specifications are subject to change without notice.

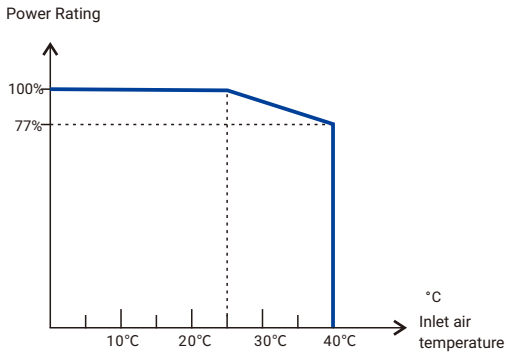
# EL Series High-density Programmable DC Electronic Load

## PS :

1. Min. operation voltage is applied for current high range.
2. F.S. in power accuracy formula equals to V range F.S. times I range F.S.
3. Minimum rise time is valid only for loading current > 5%F.S.
4. If the operating voltage exceeds the rated voltage for 1.1 times, it will cause permanent damage to the unit.
5. The over temperature protection sampling point is located in the vent.
6. The measured noise is 79dB which is tested under the condition of 40°C ambient temperature with full power for 5 minutes and 1 meter away from the rear panel.
7. The power rating specifications of 1200V models as below.



8. All the specifications are tested at temperature of 25°C, unless otherwise noted. See the diagram below for power derating.



9. Each model size indicated here does not include the wheel and the protective cover.



## ELS Series DC Electronic Load System

The standardized DC electronic load cabinet is formed with 7U height units. The maximum input current and power of a single cabinet is up to 3000A, 66kW. Support master-slave configuration to increase the input capacity to 264kW.

These cabinets use world famous circuit breaker to control the input of DC E-load module inside. After power on, the specified unit will be configured as a Master to control all of the slave units. In an emergency off situation the EMS will cut all units in the cabinet from AC supply, ensure safe operation.



### System Configuration

	30U	36U	42U
Cabinet Height	30U	36U	42U
Capacity for Loads	21U	28U	35U
Capacity (7U height unit)	3	4	5
PDU Height	3U	3U	3U
EMS Panel Height	1U	1U	1U
Cabinet Frame	2U	2U	2U
Reserved	3U	2U	1U

Rated Voltage	Input		Model	Size	Certificates
	Rated Power	Rated Current			
200V	39600W	3000A	ELS200VDC39600W-7-30	30U <sup>1</sup>	CE
	52800W	3000A	ELS200VDC52800W-7-36	36U <sup>2</sup>	
	66000W	3000A	ELS200VDC66000W-7-42	42U <sup>3</sup>	
600V	39600W	2880A	ELS600VDC39600W-7-30	30U <sup>1</sup>	CE
	52800W	3000A	ELS600VDC52800W-7-36	36U <sup>2</sup>	
	66000W	3000A	ELS600VDC66000W-7-42	42U <sup>3</sup>	
1200V	39600W	1440A	ELS1200VDC39600W-7-30	30U <sup>1</sup>	CE
	52800W	1920A	ELS1200VDC52800W-7-36	36U <sup>2</sup>	
	66000W	2400A	ELS1200VDC66000W-7-42	42U <sup>3</sup>	

\* This formula is the standard cabinet for EL series 7U model. It could extend to 264W. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

# ELS Series DC Electronic Load System

## High Power DC Load System



① 560.0x1324.0x920.0 mm & 366kg



② 560.0x1590.0x920.0 mm & 475kg



③ 560.0x1857.0x920.0 mm & 589kg

## Optional Information

(1) LAN & GPIB interface card & cables



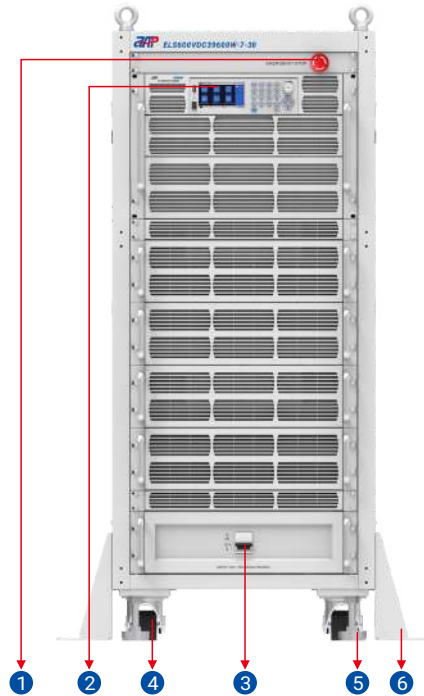
## Features

- Provides four kinds of basic working mode such as CV/CC/CR/CP, and CV+CC/CV+CR/CR+CC complex operating modes.
- Adjustable current slew rate, adjustable CV loop speed.
- Ultra high precision voltage & current measurement.
- Short circuit test mode.
- Auto mode function provides an easy way to do complicated test.
- V-monitor/I-monitor.
- Full protection: OCP, OPP, OTP, over voltage and reverse alarm.
- Equipped with Emergency Stop, physically off all managed DC eLoads at once.
- Back door with protect switch, safe to the operator.
- Front panel USB interface supports data import and export.
- Using standard SCPI communication protocol.

## Views

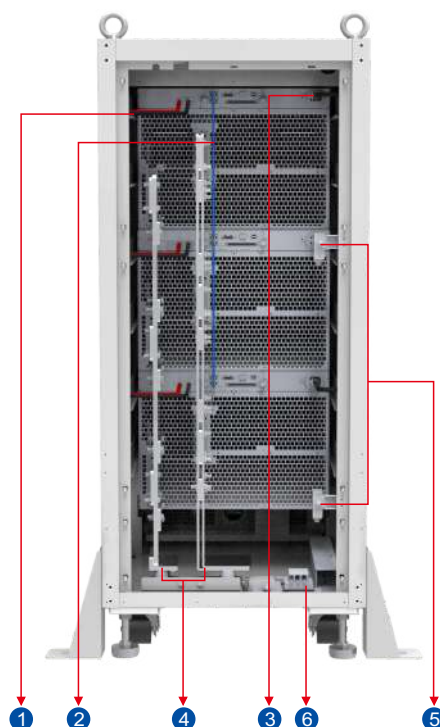
### Front side (example model in 30U)

- ① Emergency Stop, physically off AC input
- ② Master control panel
- ③ AC input circuit breaker switch
- ④ Caster( with caster lock)
- ⑤ Stopper bolt
- ⑥ Support frame



### Rear side (example model in 30U, remove the back door )

- ① Remote sense connections
- ② SYSTEM BUS, for master/slave system data transmission
- ③ AC input connection of the single unit
- ④ DC input (bus bars)
- ⑤ Protect switch
- ⑥ AC input



# ELS Series DC Electronic Load System

## Connecting the cabinet

- This series electronic load is capable of connecting up to 20 units in parallel in Master-slave mode.
- User-created electronic load system can reach at most 528kW (twenty 26.4kW units in parallel).
- The standardized electronic load system can reach up to 264kW (twenty 13.2kW units in parallel).
- Different electronic loads can be connected in parallel in Mater-slave mode. But in no case should the input DC voltage be higher than the rated voltage of electronic loads.
- Use parallel bars to simplify the connection between multiple rack cabinets.
- This series electronic load convert the consumed electrical energy into heat and dissipate it. In order to avoid overheating, decrease the room temperature or derate the actual input power based on the ambient temperature.



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### Selection List:

Model	Size	Voltage	Current	Power	Corresponding page
ELS200VDC39600W-7-30	30U	200V	3000A	39600W	P72
ELS200VDC52800W-7-36	36U	200V	3000A	52800W	P73
ELS200VDC66000W-7-42	42U	200V	3000A	66000W	P74
ELS600VDC39600W-7-30	30U	600V	2880A	39600W	P76
ELS600VDC52800W-7-36	36U	600V	3000A	52800W	P77
ELS600VDC66000W-7-42	42U	600V	3000A	66000W	P78
ELS1200VDC39600W-7-30	30U	1200V	1440A	39600W	P80
ELS1200VDC52800W-7-36	36U	1200V	1920A	52800W	P81
ELS1200VDC66000W-7-42	42U	1200V	2400A	66000W	P82

\*This formula is the standard cabinet for EL series 7U model. It could extend to 264W. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

# ELS Series DC Electronic Load System

MODEL		ELS200VDC39600W-7-30		
Rated	Voltage	0~200V		
	Current	0~3000A		
	Power	0~39600W		
	Min. Operating Voltage	0.18V@432A	0.9V@2160A	1.8V@3000A
<b>Static Mode</b>				
Constant Current Mode	Range	0~432A	0~2160A	0~3000A
	Resolution	3mA	15mA	30mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~3960W	0~19800W	0~39600W
	Resolution	120mW	600mW	1200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	0.8mΩ~8.3Ω(16V)	3.3mΩ~33.3Ω(80V)	83.3mΩ~166.6Ω(200V)
	Resolution	0.8mΩ(16V)	3.3mΩ(80V)	83.3mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	3mA/μs~43.2A/μs	15mA/μs~97.2A/μs	30mA/μs~194.4A/μs
	Slew Rate(Adv.)	3mA/μs~4.32A/μs	15mA/μs~21.6A/μs	30mA/μs~43.2A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	3mA/μs	15mA/μs	30mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~432A	0~2160A	0~3000A
	Resolution	3mA	15mA	30mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~3960W	0~19800W	0~39600W
	Resolution	120mW	600mW	1200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	440.64A	2203.2A	3060A	
OPP	4078.8W	20394W	40788W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1324.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1531.0x1040.0 mm			
Unit Weight	366kg			
Shipping Weight	436kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1350VA			
Fuse	15A			

# ELS Series DC Electronic Load System

MODEL		ELS200VDC52800W-7-36		
Rated	Voltage	0~200V		
	Current	0~3000A		
	Power	0~52800W		
	Min. Operating Voltage	0.18V@576A	0.9V@2880A	1.8V@3000A
<b>Static Mode</b>				
Constant Current Mode	Range	0~576A	0~2880A	0~3000A
	Resolution	4mA	20mA	40mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~5280W	0~26400W	0~52800W
	Resolution	160mW	800mW	1600mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	0.6mΩ~6.2Ω(16V)	2.5mΩ~25Ω(80V)	62.5mΩ~125Ω(200V)
	Resolution	0.6mΩ(16V)	2.5mΩ(80V)	62.5mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	4mA/μs~57.6A/μs	20mA/μs~129.6A/μs	40mA/μs~259.2A/μs
	Slew Rate(Adv.)	4mA/μs~5.76A/μs	20mA/μs~28.8A/μs	40mA/μs~57.6A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	4mA/μs	20mA/μs	40mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~576A	0~2880A	0~3000A
	Resolution	4mA	20mA	40mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~5280W	0~26400W	0~52800W
	Resolution	160mW	800mW	1600mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	587.52A	2937.6A	3060A	
OPP	5438.4W	27192W	54384W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1590.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1854.0x1040.0 mm			
Unit Weight	475kg			
Shipping Weight	553kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1800VA			
Fuse	20A			

# ELS Series DC Electronic Load System

MODEL		ELS200VDC66000W-7-42		
Rated	Voltage	0~200V		
	Current	0~3000A		
	Power	0~66000W		
	Min. Operating Voltage	0.18V@720A	0.9V@3000A	1.8V@3000A
<b>Static Mode</b>				
Constant Current Mode	Range	0~720A	0~3000A	0~3000A
	Resolution	5mA	25mA	50mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~6600W	0~33000W	0~66000W
	Resolution	200mW	1000mW	2000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	0.5mΩ~5Ω(16V)	2mΩ~20Ω(80V)	50mΩ~100Ω(200V)
	Resolution	0.5mΩ(16V)	2mΩ(80V)	50mΩ(200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	5mA/μs~72A/μs	25mA/μs~162A/μs	50mA/μs~324A/μs
	Slew Rate(Adv.)	5mA/μs~7.2A/μs	25mA/μs~36A/μs	50mA/μs~72A/μs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	5mA/μs	25mA/μs	50mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~720A	0~3000A	0~3000A
	Resolution	5mA	25mA	50mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~6600W	0~33000W	0~66000W
	Resolution	200mW	1000mW	2000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	17.6V	88V	220V	
OCP	734.4A	3060A	3060A	
OPP	6798W	33990W	67980W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1857.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x2165.0x1040.0 mm			
Unit Weight	589kg			
Shipping Weight	681kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	2250VA			
Fuse	25A			



# ELS Series DC Electronic Load System

200V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
<b>Program Mode</b>			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
<b>External Waveform Control/Monitor</b>			
Control/Monitor	Voltage/Current		
Input/Output Range	0~10V		
Voltage Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy	0.4%F.S.		
Resolution	4mV		
Bandwidth	20kHz		
Input Impedance	10kΩ		
<b>Short Circuit</b>			
Current(CC)	Full range current value		
Voltage(CV)	Voltage value at the Max power in working mode		
Resistance(CR)	Min resistance value of CR Mode		
<b>Master/Slave</b>			
Parallel Interface	RJ45		
Parallel Quantity	Up to 20 single units in the entire system		
<b>General</b>			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature Control		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional)		
Communication Response Time	30ms		
Storage Capacity	User defined settings (300 sets), OCP settings (10 sets), OPP settings (10 sets), Default settings (1 set), Factory setting (1 set)		
<b>Environmental</b>			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	<2000m		
<b>Regulatory Compliance</b>			
Overvoltage Category	II		
Protection Degree	I		
Pollution Degree	II		
Input Impedance	266.6kΩ (Typical)/39600W, 200kΩ (Typical)/52800W, 160kΩ (Typical)/66000W		
Isolation Voltage	/		
Certificates	CE		

All specifications are subject to change without notice.

# ELS Series DC Electronic Load System

MODEL		ELS600VDC39600W-7-30		
Rated	Voltage	0~600V		
	Current	0~2880A		
	Power	0~39600W		
	Min. Operating Voltage	0.8V@288A	4V@1440A	8V@2880A
<b>Static Mode</b>				
Constant Current Mode	Range	0~288A	0~1440A	0~2880A
	Resolution	3mA	15mA	30mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~3960W	0~19800W	0~39600W
	Resolution	120mW	600mW	1200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	8.3mΩ~83.30Ω(80V)	33.3mΩ~333.3Ω(150V)	333.3mΩ~666.6Ω(600V)
	Resolution	8.3mΩ(80V)	33.3mΩ(150V)	333.3mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	3mA/μs~11.52A/μs	15mA/μs~57.6A/μs	30mA/μs~115.2A/μs
	Slew Rate(Adv.)	3mA/μs~2.88A/μs	15mA/μs~14.4A/μs	30mA/μs~28.8A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	3mA/μs	15mA/μs	30mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~288A	0~1440A	0~2880A
	Resolution	3mA	15mA	30mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~3960W	0~19800W	0~39600W
	Resolution	120mW	600mW	1200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	293.76A	1468.8A	2937.6A	
OPP	4078.8W	20394W	40788W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1324.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1531.0x1040.0 mm			
Unit Weight	366kg			
Shipping Weight	436kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1350VA			
Fuse	15A			

# ELS Series DC Electronic Load System

MODEL		ELS600VDC52800W-7-36		
Rated	Voltage	0~600V		
	Current	0~3000A		
	Power	0~52800W		
	Min. Operating Voltage	0.8V@384A	4V@1920A	8V@3000A
<b>Static Mode</b>				
Constant Current Mode	Range	0~384A	0~1920A	0~3000A
	Resolution	4mA	20mA	40mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~5280W	0~26400W	0~52800W
	Resolution	160mW	800mW	1600mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	6.2mΩ~62.5Ω(80V)	25mΩ~250Ω(150V)	250mΩ~500Ω(600V)
	Resolution	6.2mΩ(80V)	25mΩ(150V)	250mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	4mA/μs~15.36A/μs	20mA/μs~76.8A/μs	40mA/μs~153.6A/μs
	Slew Rate(Adv.)	4mA/μs~3.84A/μs	20mA/μs~19.2A/μs	40mA/μs~38.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	4mA/μs	20mA/μs	40mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~384A	0~1920A	0~3000A
	Resolution	4mA	20mA	40mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~5280W	0~26400W	0~52800W
	Resolution	160mW	800mW	1600mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	391.68A	1958.4A	3060A	
OPP	5438.4W	27192W	54384W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1590.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1854.0x1040.0 mm			
Unit Weight	475kg			
Shipping Weight	553kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1800VA			
Fuse	20A			

# ELS Series DC Electronic Load System

MODEL		ELS600VDC66000W-7-42		
Rated	Voltage	0~600V		
	Current	0~3000A		
	Power	0~66000W		
	Min. Operating Voltage	0.8V@480A	4V@2400A	8V@3000A
<b>Static Mode</b>				
Constant Current Mode	Range	0~480A	0~2400A	0~3000A
	Resolution	5mA	25mA	50mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~6600W	0~33000W	0~66000W
	Resolution	200mW	1000mW	2000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	5mΩ~50Ω(80V)	20mΩ~200Ω(150V)	200mΩ~400Ω(600V)
	Resolution	5mΩ(80V)	20mΩ(150V)	200mΩ(600V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	5mA/μs~19.2A/μs	25mA/μs~96A/μs	50mA/μs~192A/μs
	Slew Rate(Adv.)	5mA/μs~4.8A/μs	25mA/μs~24A/μs	50mA/μs~48A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	5mA/μs	25mA/μs	50mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~80V	0~150V	0~600V
	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~480A	0~2400A	0~3000A
	Resolution	5mA	25mA	50mA
	Accuracy	0.04%+0.04%F.S.		
Power	Range	0~6600W	0~33000W	0~66000W
	Resolution	200mW	1000mW	2000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	88V	165V	660V	
OCP	489.6A	2448A	3060A	
OPP	6798W	33990W	67980W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1857.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x2165.0x1040.0 mm			
Unit Weight	589kg			
Shipping Weight	681kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	2250VA			
Fuse	25A			

# ELS Series DC Electronic Load System

600V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
<b>Program Mode</b>			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
<b>External Waveform Control/Monitor</b>			
Control/Monitor	Voltage/Current		
Input/Output Range	0~10V		
Voltage Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy	0.4%F.S.		
Resolution	4mV		
Bandwidth	20kHz		
Input Impedance	10kΩ		
<b>Short Circuit</b>			
Current(CC)	Full range current value		
Voltage(CV)	Voltage value at the Max power in working mode		
Resistance(CR)	Min resistance value of CR Mode		
<b>Master/Slave</b>			
Parallel Interface	RJ45		
Parallel Quantity	Up to 20 single units in the entire system		
<b>General</b>			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature Control		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional)		
Communication Response Time	30ms		
Storage Capacity	User defined settings (300 sets), OCP settings (10 sets), OPP settings (10 sets), Default settings (1 set), Factory setting (1 set)		
<b>Environmental</b>			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	<2000m		
<b>Regulatory Compliance</b>			
Overvoltage Category	II		
Protection Degree	I		
Pollution Degree	II		
Input Impedance	333.3kΩ (Typical)/39600W, 250kΩ (Typical)/52800W, 200kΩ (Typical)/66000W		
Isolation Voltage	/		
Certificates	CE		

All specifications are subject to change without notice.

# ELS Series DC Electronic Load System

MODEL		ELS1200VDC39600W-7-30		
Rated	Voltage	0~1200V		
	Current	0~1440A		
	Power	0~39600W		
	Min. Operating Voltage	2V@144A	10V@720A	20V@1440A
<b>Static Mode</b>				
Constant Current Mode	Range	0~144A	0~720A	0~1440A
	Resolution	1.2mA	6mA	12mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~3960W	0~19800W	0~39600W
	Resolution	120mW	600mW	1200mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	8.3mΩ~83.3Ω(150V)	33.3mΩ~333.3Ω(600V)	333.3mΩ~666.6Ω(1200V)
	Resolution	8.3mΩ(150V)	33.3mΩ(600V)	333.3mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1.2mA/μs~4.8A/μs	6mA/μs~24A/μs	12mA/μs~48A/μs
	Slew Rate(Adv.)	1.2mA/μs~1.44A/μs	6mA/μs~7.2A/μs	12mA/μs~14.4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1.2mA/μs	6mA/μs	12mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~144A	0~720A	0~1440A
	Resolution	1.2mA	6mA	12mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~3960W	0~19800W	0~39600W
	Resolution	120mW	600mW	1200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	146.88A	734.4A	1468.8A	
OPP	4078.8W	20394W	40788W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1324.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1531.0x1040.0 mm			
Unit Weight	366kg			
Shipping Weight	436kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1350VA			
Fuse	15A			

# ELS Series DC Electronic Load System

MODEL		ELS1200VDC52800W-7-36		
Rated	Voltage	0~1200V		
	Current	0~1920A		
	Power	0~52800W		
	Min. Operating Voltage	2V@192A	10V@960A	20V@1920A
<b>Static Mode</b>				
Constant Current Mode	Range	0~192A	0~960A	0~1920A
	Resolution	1.6mA	8mA	16mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~5280W	0~26400W	0~52800W
	Resolution	160mW	800mW	1600mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	6.2mΩ~62.5Ω(150V)	25mΩ~5500Ω(600V)	250mΩ~500Ω(1200V)
	Resolution	6.2mΩ(150V)	25mΩ(600V)	250mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	1.6mA/μs~6.4A/μs	8mA/μs~32A/μs	16mA/μs~64A/μs
	Slew Rate(Adv.)	1.6mA/μs~1.92A/μs	8mA/μs~9.6A/μs	16mA/μs~19.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	1.6mA/μs	8mA/μs	16mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~192A	0~960A	0~1920A
	Resolution	1.6mA	8mA	16mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~5280W	0~26400W	0~52800W
	Resolution	160mW	800mW	1600mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	195.84A	979.2A	1958.4A	
OPP	5438.4W	27192W	54384W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1590.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1854.0x1040.0 mm			
Unit Weight	475kg			
Shipping Weight	553kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1800VA			
Fuse	20A			

# ELS Series DC Electronic Load System

MODEL		ELS1200VDC66000W-7-42		
Rated	Voltage	0~1200V		
	Current	0~2400A		
	Power	0~66000W		
	Min. Operating Voltage	2V@240A	10V@1200A	20V@2400A
<b>Static Mode</b>				
Constant Current Mode	Range	0~240A	0~1200A	0~2400A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.		
Constant Power Mode	Range	0~6600W	0~33000W	0~66000W
	Resolution	200mW	1000mW	2000mW
	Accuracy	0.2%+0.2%F.S.		
Constant Resistance Mode	Range	5mΩ~50Ω(150V)	20mΩ~200Ω(600V)	200mΩ~400Ω(1200V)
	Resolution	5mΩ(150V)	20mΩ(600V)	200mΩ(1200V)
	Accuracy	Vin/Rset*(0.2%)+0.2% I.F.S.		
<b>Dynamic Mode</b>				
CCD/CRD	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1μs		
	Accuracy	1μs+100ppm		
	Slew Rate(Pro.)	2mA/μs~8A/μs	10mA/μs~40A/μs	20mA/μs~80A/μs
	Slew Rate(Adv.)	2mA/μs~2.4A/μs	10mA/μs~12A/μs	20mA/μs~24A/μs
	Min. Rise Time(Pro.)	20μs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	2mA/μs	10mA/μs	20mA/μs
	Accuracy	5%±10us		
<b>Measurement</b>				
Voltage	Range	0~150V	0~600V	0~1200V
	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~240A	0~1200A	0~2400A
	Resolution	2mA	10mA	20mA
	Accuracy	0.04%+0.06%F.S.		
Power	Range	0~6600W	0~33000W	0~66000W
	Resolution	200mW	1000mW	2000mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Frequency	500kHz			
<b>Protection</b>				
OVP	165V	660V	1320V	
OCP	244.8A	1224A	2448A	
OPP	6798W	33990W	67980W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%V.F.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
<b>Mechanical</b>				
Dimensions(WxHxD)	560.0x1857.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x2165.0x1040.0 mm			
Unit Weight	589kg			
Shipping Weight	681kg			
<b>AC Input</b>				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	2250VA			
Fuse	25A			



# ELS Series DC Electronic Load System

1200V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
<b>Program Mode</b>			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
<b>External Waveform Control/Monitor</b>			
Control/Monitor	Voltage/Current		
Input/Output Range	0~10V		
Voltage Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range	0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy	0.4%F.S.		
Resolution	4mV		
Bandwidth	20kHz		
Input Impedance	10kΩ		
<b>Short Circuit</b>			
Current(CC)	Full range current value		
Voltage(CV)	Voltage value at the Max power in working mode		
Resistance(CR)	Min resistance value of CR Mode		
<b>Master/Slave</b>			
Parallel Interface	RJ45		
Parallel Quantity	Up to 20 single units in the entire system		
<b>General</b>			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft key, Numeric key, Rotary Knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature Control		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional)		
Communication Response Time	30ms		
Storage Capacity	User defined settings (300 sets), OCP settings (10 sets), OPP settings (10 sets), Default settings (1 set), Factory setting (1 set)		
<b>Environmental</b>			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	<2000m		
<b>Regulatory Compliance</b>			
Overvoltage Category	II		
Protection Degree	I		
Pollution Degree	II		
Input Impedance	666.6kΩ (Typical)/39600W, 500kΩ (Typical)/52800W, 400kΩ (Typical)/66000W		
Isolation Voltage	/		
Certificates	CE		

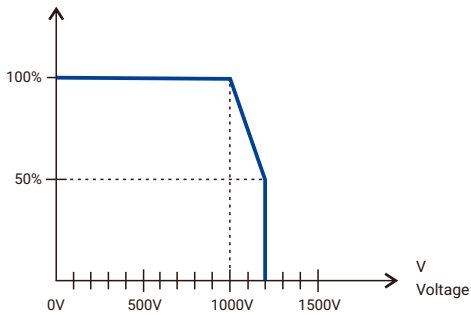
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# ELS Series DC Electronic Load System

## PS :

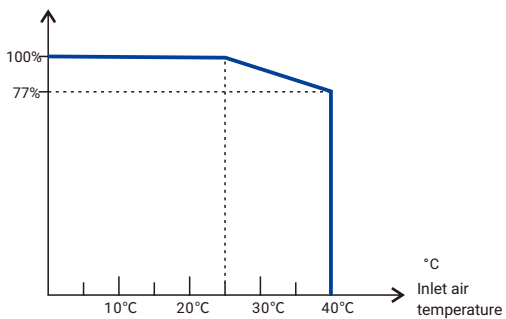
1. Min. operation voltage is applied for current high range.
2. F.S. in power accuracy formula equals to V range F.S. times I range F.S.
3. Minimum rise time is valid only for loading current > 5%F.S.
4. If the operating voltage exceeds the rated voltage for 1.1 times, it will cause permanent damage to the unit.
5. The over temperature protection sampling point is located in the vent.
6. The measured noise is 79dB which is tested under the condition of 40°C ambient temperature with full power for 5 minutes and 1 meter away from the rear panel.
7. The power rating specifications of 1200V models as below.

Power Rating



8. All the specifications are tested at temperature of 25°C, unless otherwise noted. See the diagram below for power derating.

Power Rating



9. Each model size indicated here does not include the wheel and the protective cover.

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