

Efficiency, Stability, Reliable, Precision

## Middle Power DC Electronic Load

» Product specification sheet



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# Middle Power DC Electronic Load

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## Selection List:

Model	Voltage	Current	Power	Corresponding page
EL200VDC1200W	200V	130A	1200W	P01
EL200VDC1800W	200V	190A	1800W	P02
EL200VDC2400W	200V	260A	2400W	P03
EL200VDC3000W	200V	320A	3000W	P04
EL600VDC1200W	600V	90A	1200W	P06
EL600VDC1800W	600V	130A	1800W	P07
EL600VDC2400W	600V	180A	2400W	P08
EL600VDC3000W	600V	220A	3000W	P09
EL1200VDC1200W	1200V	45A	1200W	P11
EL1200VDC2400W	1200V	90A	2400W	P12

# Middle Power 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	10mW	50mW	100mW
	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~1.3A/μs	0.5mA/μs~4.55A/μs	2mA/μs~9.1A/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	10mW	50mW	100mW
	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	150VA			
Fuse	2.5A			

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	10mW	50mW	100mW
	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~1.9A/μs	0.5mA/μs~6.65A/μs	2mA/μs~13.3A/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	10mW	50mW	100mW
	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	150VA			
Fuse	2.5A			

# Middle Power 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	10mW	50mW	100mW
	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~2.6A/μs	2mA/μs~9.1A/μs	5mA/μs~18.2A/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	10mW	50mW	100mW
	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	180VA			
Fuse	2.5A			

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	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~3.2A/μs	2mA/μs~11.2A/μs	5mA/μs~22.4A/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	10mW	50mW	100mW
	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	180VA			
Fuse	2.5A			

# Middle Power 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 <b>units</b>		
Parallel Quantity (Adv.)	10 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.



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	10mW	50mW	100mW
	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~0.9A/μs	0.5mA/μs~3.15A/μs	1mA/μs~6.3A/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.)	10μs(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	10mW	50mW	100mW
	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	150VA			
Fuse	2.5A			

# Middle Power 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	10mW	50mW	100mW
	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~1.3A/μs	0.5mA/μs~4.55A/μs	1mA/μs~9.1A/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.)	10μs(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	10mW	50mW	100mW
	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	150VA			
Fuse	2.5A			

# Middle Power 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	10mW	50mW	100mW
	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~1.8A/μs	1mA/μs~6.3A/μs	2mA/μs~12.6A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.18A/μs	1mA/μs~0.9A/μs	2mA/μs~1.8A/μs
	Min. Rise Time(Pro.)	10μs(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	10mW	50mW	100mW
	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	180VA			
Fuse	2.5A			

# Middle Power DC Electronic Load

MODEL		EL600VDC3000W		
Rated	Voltage	0~600V		
	Current	0~2200A		
	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	10mW	50mW	100mW
	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~2.2A/μs	1mA/μs~7.7A/μs	2mA/μs~15.4A/μs
	Slew Rate(Adv.)	0.2mA/μs~0.22A/μs	1mA/μs~1.1A/μs	2mA/μs~2.2A/μs
	Min. Rise Time(Pro.)	10μs(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	10mW	50mW	100mW
	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	180VA			
Fuse	2.5A			

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.)	10 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.

# Middle Power 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	10mW	50mW	100mW
	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(12000V)
	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~1.575A/μs	1mA/μs~3.15A/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.)	10μs(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	10mW	50mW	100mW
	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	150VA			
Fuse	2.5A			

# Middle Power 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	10mW	50mW	100mW
	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~0.9A/μs	0.5mA/μs~3.15A/μs	1mA/μs~6.3A/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.)	10μs(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	10mW	50mW	100mW
	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	180VA			
Fuse	2.5A			

# Middle Power DC Electronic Load

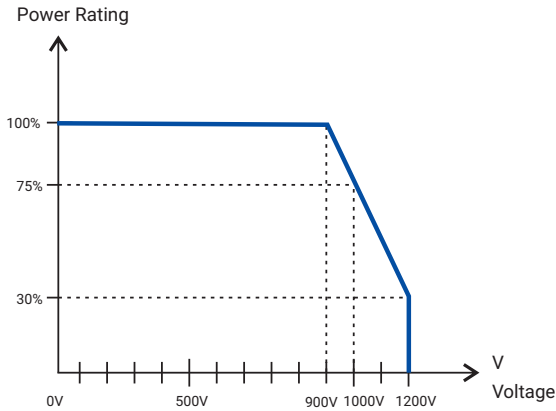
1200V Series System Specifications			
<b>Non Linear Mode</b>			
Range	CL	30uF~50000uF	
	RL	As CR Mode	
	Ls	0.1uH~16uH	
	Rs	30mΩ~20Ω	
Resolution	CL	1uF	
	RL	As CR Mode	
	Ls	0.1uH	
	Rs	1mΩ	
<b>Battery Discharge Mode</b>			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test 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 <b>units</b>		
Parallel Quantity (Adv.)	10 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.

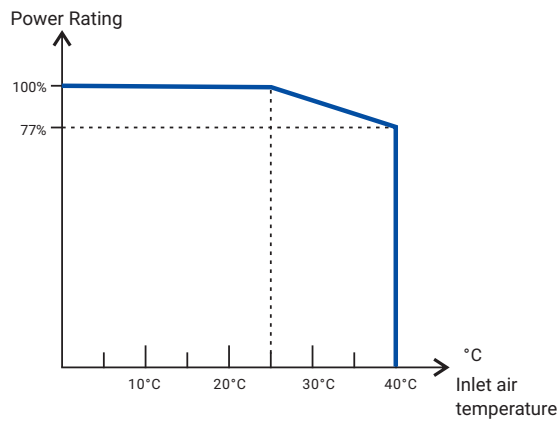


## PS :

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.

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