

High Power DC Load System

» Product specification sheet



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High Power DC Load System

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Selection List:

Model	Size	Voltage	Current	Power	Corresponding page
ELS200VDC39600W	27U	200V	3000A	39600W	P01
ELS200VDC52800W	34U	200V	3000A	52800W	P02
ELS200VDC66000W	41U	200V	3000A	66000W	P03
ELS600VDC39600W	27U	600V	2880A	39600W	P05
ELS600VDC52800W	34U	600V	3000A	52800W	P06
ELS600VDC66000W	41U	600V	3000A	66000W	P07
ELS1200VDC39600W	27U	1200V	1440A	39600W	P09
ELS1200VDC52800W	34U	1200V	1920A	52800W	P10
ELS1200VDC66000W	41U	1200V	2400A	66000W	P11

High Power DC Load System

MODEL		ELS200VDC39600W		
Rated	Voltage	0~200V		
	Current	0~3000A		
	Power	0~39600W		
	Min. Operating Voltage	0.18V@432A	0.9V@2160A	1.8V@3000A
Static Mode				
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.		
Dynamic Mode				
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		
Measurement				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~432A	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			
Protection				
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%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1190.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1531.0x1040.0 mm			
Unit Weight	366kg			
Shipping Weight	436kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1350VA			
Fuse	15A			

High Power DC Load System

MODEL		ELS200VDC52800W		
Rated	Voltage	0~200V		
	Current	0~3000A		
	Power	0~52800W		
	Min. Operating Voltage	0.18V@576A	0.9V@2880A	1.8V@3000A
Static Mode				
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.		
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~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		
Measurement				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~576A	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			
Protection				
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%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1501.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1854.0x1040.0 mm			
Unit Weight	475kg			
Shipping Weight	553kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1800VA			
Fuse	20A			

High Power DC Load System

MODEL		ELS200VDC66000W		
Rated	Voltage	0~200V		
	Current	0~3000A		
	Power	0~66000W		
	Min. Operating Voltage	0.18V@720A	0.9V@3000A	1.8V@3000A
Static Mode				
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.		
Dynamic Mode				
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		
Measurement				
Voltage	Range	0~16V	0~80V	0~200V
	Resolution	0.1mV	0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.		
Current	Range	0~720A	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			
Protection				
OVP	17.6V	88V	220V	
OCP	734.4A	3060A	3060A	
OPP	6798W	33990W	67980W	
Over Temperature	70~75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1812.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x2165.0x1040.0 mm			
Unit Weight	589kg			
Shipping Weight	681kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	2250VA			
Fuse	25A			

200V Series System Specifications			
Non Linear Mode			
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	
Battery Discharge Mode			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
Program Mode			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
External Waveform Control/Monitor			
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		
Short Circuit			
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		
Master/Slave			
Parallel Interface	RJ45		
Parallel Quantity	Up to 20 single units in the entire system		
General			
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)		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	≤2000m		
Regulatory Compliance			
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.

High Power DC Load System

MODEL		ELS600VDC39600W		
Rated	Voltage	0~600V		
	Current	0~2880A		
	Power	0~39600W		
	Min. Operating Voltage	0.8V@288A	0.9V@1440A	1.8V@2880A
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.		
Dynamic Mode				
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		
Measurement				
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			
Protection				
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%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1190.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1531.0x1040.0 mm			
Unit Weight	366kg			
Shipping Weight	436kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1350VA			
Fuse	15A			

High Power DC Load System

MODEL		ELS600VDC52800W		
Rated	Voltage	0~600V		
	Current	0~3000A		
	Power	0~52800W		
	Min. Operating Voltage	0.8V@384A	4V@1920A	8V@3000A
Static Mode				
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.		
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~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		
Measurement				
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			
Protection				
OVP	88V	165V	660V	
OCP	391.68A	1958.4A	3060A	
OPP	5438.4W	27192W	54384W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1501.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1854.0x1040.0 mm			
Unit Weight	475kg			
Shipping Weight	553kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1800VA			
Fuse	20A			

High Power DC Load System

MODEL		ELS600VDC66000W		
Rated	Voltage	0~600V		
	Current	0~3000A		
	Power	0~66000W		
	Min. Operating Voltage	0.8V@480A	4V@2400A	8V@3000A
Static Mode				
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.		
Dynamic Mode				
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		
Measurement				
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			
Protection				
OVP	88V	165V	660V	
OCP	489.6A	2448A	3060A	
OPP	6798W	33990W	67980W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1812.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x2165.0x1040.0 mm			
Unit Weight	589kg			
Shipping Weight	681kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	2250VA			
Fuse	25A			

600V Series System Specifications			
Non Linear Mode			
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	
Battery Discharge Mode			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
Program Mode			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
External Waveform Control/Monitor			
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		
Short Circuit			
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		
Master/Slave			
Parallel Interface	RJ45		
Parallel Quantity	Up to 20 single units in the entire system		
General			
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)		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	≤2000m		
Regulatory Compliance			
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.

High Power DC Load System

MODEL		ELS1200VDC39600W		
Rated	Voltage	0~1200V		
	Current	0~1440A		
	Power	0~39600W		
	Min. Operating Voltage	2V@144A	10V@720A	20V@1440A
Static Mode				
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	0~39600W	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%IF.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.)	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		
Measurement				
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			
Protection				
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			
Mechanical				
Dimensions(WxHxD)	560.0x1190.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1531.0x1040.0 mm			
Unit Weight	366kg			
Shipping Weight	436kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1350VA			
Fuse	15A			

High Power DC Load System

MODEL		ELS1200VDC52800W		
Rated	Voltage	0~1200V		
	Current	0~1920A		
	Power	0~52800W		
	Min. Operating Voltage	2V@192A	10V@960A	20V@1920A
Static Mode				
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.		
Dynamic Mode				
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		
Measurement				
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			
Protection				
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%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1501.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x1854.0x1040.0 mm			
Unit Weight	475kg			
Shipping Weight	553kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	1800VA			
Fuse	20A			

High Power DC Load System

MODEL		ELS1200VDC66000W		
Rated	Voltage	0~1200V		
	Current	0~2400A		
	Power	0~66000W		
	Min. Operating Voltage	2V@240A	10V@1200A	20V@2400A
Static Mode				
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.		
Dynamic Mode				
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		
Measurement				
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			
Protection				
OVP	165V	660V	1320V	
OCP	244.8A	1224A	2448A	
OPP	6798W	33990W	67980W	
Over Temperature	70-75°C			
Overvoltage Safety Value	110%VF.S.			
Reverse Alarm	Yes			
Alarm Tone	Yes			
Mechanical				
Dimensions(WxHxD)	560.0x1812.0x920.0 mm			
Package Dimensions(WxHxD)	830.0x2165.0x1040.0 mm			
Unit Weight	589kg			
Shipping Weight	681kg			
AC Input				
Voltage	100~240Vac			
Frequency	50~60Hz			
Power	2250VA			
Fuse	25A			

1200V Series System Specifications			
Non Linear Mode			
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	
Battery Discharge Mode			
Battery Voltage	As CV Mode		
Current Resolution	As CC Mode		
Record	AH/WH		
Test Time	1s~100000s		
Time Resolution	1s		
Program Mode			
Step No.	300 Max.		
Dwell	0.1ms~4000s		
Spec Check	Voltage/Current/Power		
External Waveform Control/Monitor			
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		
Short Circuit			
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		
Master/Slave			
Parallel Interface	RJ45		
Parallel Quantity	Up to 20 single units in the entire system		
General			
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)		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~80°C		
Temperature Coefficient	100ppm/°C(Typical)		
Relative Humidity	10~90%RH		
Altitude	≤2000m		
Regulatory Compliance			
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		

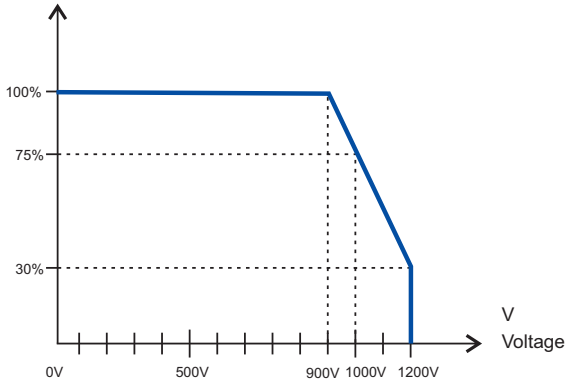
All specifications are subject to change without notice.

High Power DC Load System

PS :

1. Each model size indicated here does not include the wheel and the protective cover.
2. Minimum rise time is valid only for loading current > 5%F.S.
3. 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.
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 power rating specifications of 1200V models as below.

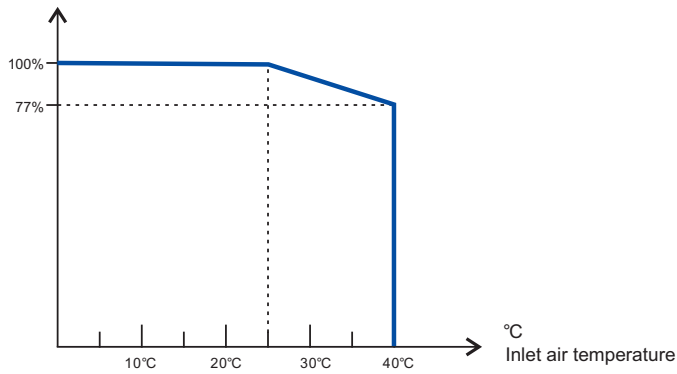
Power Rating



7. All the specifications are tested at temperature of 25°C, unless otherwise noted.

See the diagram below for power derating.

Power Rating



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