

ELS Series DC Electronic Load System

» Product specification sheet



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Selection List:

Model	Size	Voltage	Current	Power	Corresponding page
ELS200VDC39600W-7-30	30U	200V	3000A	39600W	P01
ELS200VDC52800W-7-36	36U	200V	3000A	52800W	P02
ELS200VDC66000W-7-42	42U	200V	3000A	66000W	P03
ELS600VDC39600W-7-30	30U	600V	2880A	39600W	P05
ELS600VDC52800W-7-36	36U	600V	3000A	52800W	P06
ELS600VDC66000W-7-42	42U	600V	3000A	66000W	P07
ELS1200VDC39600W-7-30	30U	1200V	1440A	39600W	P09
ELS1200VDC52800W-7-36	36U	1200V	1920A	52800W	P10
ELS1200VDC66000W-7-42	42U	1200V	2400A	66000W	P11

*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
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)		560.0x1324.0x920.0 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		

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
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)		560.0x1590.0x920.0 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		

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
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)		560.0x1857.0x920.0 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.

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
Static Mode				
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)		560.0x1324.0x920.0 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		

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
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)		560.0x1590.0x920.0 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		

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
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)		560.0x1857.0x920.0 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.

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
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	0~3960W	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.		
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)		560.0x1324.0x920.0 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		

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
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)		560.0x1590.0x920.0 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		

ELS Series DC Electronic Load System

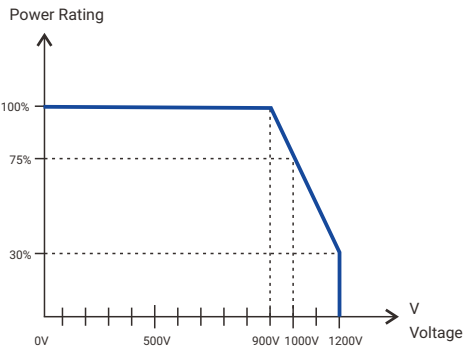
MODEL		ELS1200VDC66000W-7-42		
Rated	Voltage	0~1200V		
	Current	0~2400A		
	Power	0~66000W		
	Min. Operating Voltage	2V@240A	10V@1200A	20V@2400A
Static Mode				
Constant Current Mode	Range	0~240A	0~1200A	0~2400A
	Resolution	2mA	10mA	20mA
	Accuracy	0.05%+0.05%F.S.		
Constant Voltage Mode	Range	0~150V	0~600V	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)		560.0x1857.0x920.0 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/Ouput 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		

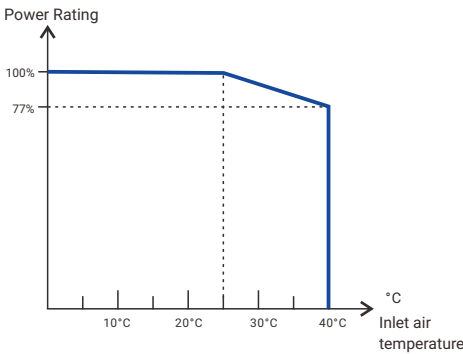
All specifications are subject to change without notice.

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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