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ELP-3360P

High Voltage High Power DC Loads

Description

This series of high power loads are able to take up to 10.8kW at 500Vdc. A high degree of accuracy is provided via the front panel displays and the integrated computer interfaces. Models are available with relatively wide or narrow current sink ranges. All units have dual ranges for both current and resistance operation. This provides excellent resolution with the possibility of setting steps below 2mA. True dynamic operation is possible when the load is in constant current or constant power mode. The current slew rate can be adjusted between 2 preset current levels. The time while the waveform is at the upper limit and the time spent low can also be adjusted. The load also has an input to enable it to follow a signal generated from an external source. The front panel memory is a useful feature to enable frequently used setting to be quickly restored. A dedicated short test function enables the short voltage and current to be measured. The ELP-3360P is used in many applications including PFC & current limit testing, transient response and battery charge/discharge simulation.



- Dynamic operation with external tracking
- Front panel memory function
- IEEE488.2/RS232 interfaces
- CC, CV, CP & CR Modes
- Ideal for PFC testing

Selection Table

Part Number	Maximum Power	Maximum Voltage	Maximum Current	Dimensions (Width x Height x Depth)
ELP-33623	7.2kW	500VDC	0 - 240A	19" x 16U x 445mm*
ELP-33673	7.2kW	500VDC	0 - 48A	19" x 16U x 445mm*
ELP-33624	9kW	500VDC	0 - 300A	19" x 20U x 445mm*
ELP-33674	9kW	500VDC	0 - 60A	19" x 20U x 445mm*
ELP-33625	10.8kW	500VDC	0 - 360A	19" x 24U x 445mm*
ELP-33675	10.8kW	500VDC	0 - 72A	19" x 24U x 445mm*

*Units shipped as 19"x 4U rackmounting modules

Options Table

Code	Description
/0001.....	1m IEEE488.2 cable
/0002.....	2m IEEE488.2 cable
/0003.....	2m RS232 cable
/9931.....	Remote controller
/DSK.....	Disable short test function



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Technical Data

	ELP-33623	ELP-33673	ELP-33624	ELP-33674	ELP-33625	ELP-33675
Over Power Protection	≈ 7560W	≈ 7560W	≈ 9450W	≈ 9450W	≈ 11340W	≈ 11340W
Over Current Protection	≈ 252A	≈ 50.4A	≈ 315A	≈ 63A	≈ 378A	≈ 75.6A
Over Voltage Protection	≈ 525.5V	≈ 525.5V	≈ 525.5V	≈ 525.5V	≈ 525.5V	≈ 525.5V
Over Temp. Protection	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C
CC Mode						
Range 1	0 - 24A	0 - 4.8A	0 - 30A	0 - 6A	0 - 36A	0 - 7.2A
Range 1 Resolution	6.4mA	1.28mA	8mA	1.6mA	9.6mA	1.92mA
Range 2	24 - 240A	4.8 - 48A	30 - 300A	6 - 60A	36 - 360A	7.2 - 72A
Range 2 Resolution	64mA	12.8mA	80mA	16mA	96mA	19.2mA
Accuracy	± 0.5% of (setting + range)					
CR Mode						
Range 1	0.0555 - 2.083Ω	0.5554 - 10.416Ω	0.0888 - 1.666Ω	0.4444 - 8.333Ω	0.074 - 1.3888Ω	0.3704 - 6.944Ω
Range 1 Resolution	0.555mΩ	2.777mΩ	0.444mΩ	2.222mΩ	0.3703mΩ	1.852mΩ
Range 2	2.083 - 7811KΩ	10.416 - 19531Ω	1.666 - 6250Ω	8.333 - 15625Ω	1.3888 - 5208Ω	6.944 - 13020Ω
Range 2 Resolution	0.128mS	0.005mS	0.16mS	0.032mS	19.2mS	0.005mS
Accuracy	± 0.5% of (setting + range)					
CV Mode						
Range	0 - 500V					
Resolution	0.1333 V					
Accuracy	± 0.25% of (setting + range)					
CP Mode						
Range 1	0 - 7200W	0 - 7200W	0 - 9000W	0 - 9000W	0 - 10800W	0 - 10800W
Range 1 Resolution	1.92W	1.92W	2.4W	2.4W	2.88W	2.88W
Accuracy	± 0.5% of (setting + range)					
4½ DVM						
Range	0 - 600.0V					
Resolution	2mV					
Range	600.0V					
Resolution	20mV					
Accuracy	± 0.05% of (reading + range)					
4½ DAM						
Range 1	0 - 24.00A	0 - 4.800A	0 - 30.00A	0 - 6.000A	0 - 36.00A	0 - 7.200A
Range 1 Resolution	10mA	0.16mA	1mA	0.2mA	12mA	0.24mA
Range 2	24 - 240.0A	4.8 - 48.00A	30 - 300.0A	6 - 60.00A	36 - 360.00A	7.2 - 72.00A
Range 2 Resolution	100mA	1.6mA	10mA	2mA	120mA	2.4A
Accuracy	± 0.2% of (reading + range)					
Dynamic						
Slew Rate 1	19.2mA - 1.2A/μS	3.84mA - 0.24A/μS	24mA - 1.5A/μS	4.8mA - 0.3A/μS	28.8mA - 1.8A/μS	5.67mA - 0.36A/μS
Slew Rate 2	192mA - 12A/μS	38.4mA - 2.4A/μS	240mA - 15A/μS	48mA - 3A/μS	288mA - 18A/μS	56.7mA - 3.6A/μS
Thigh & Tlow	50μS - 9.999Sec					
Accuracy	± 10% ± 10μS					
Load ON voltage	0.4 - 100V, 1% of (setting + range)					
Load OFF voltage	0 - 100V, 0.05% of (setting + range)					
Max. Short Resistance	0.0208Ω	0.104Ω	0.0167Ω	0.104Ω	0.014Ω	0.07Ω