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ELP-3350P

High Current High Power DC Load

Description

With a high power capability and wide current range this feature laden series of electronic loads are suitable for many applications. When working with a dc source that requires low currents to be sunk the load's dual ranges allow for high degree of resolution and accuracy. Constant current, resistance, voltage and power modes are all provided as standard. When operated in CC or CP modes the loads provide true dynamic functionality. This enables real world pulsing loads to be accurately simulated. Dual ranges are provided for the current rise and fall times. Slew rates as slow as 16mA per microsecond can be set on some models while others allow fast changes of up to 30A per microsecond to be programmed. A BNC connector is provided on the rear panel to allow the load to follow an external signal such as that created by a waveform generator. An isolated BNC connector is also provided on the front panel to monitor the actual load current. Front panel control and display along with RS232C and GPIB interfaces are provided for remote control and measurement.



- CC, CR, CV, CP, dynamic & short mode
- OCP, OPP & short test functions
- IEEE488.2 & RS232 interfaces
- Scope output for load current

Selection Table

Part Number	Maximum Power	Maximum Voltage	Maximum Current	Dimensions (Width x Height x Depth)
ELP-33501	2400W	60VDC	0 - 240A	19" x 8U x 445mm
ELP-33511	3600W	60VDC	0 - 240A	19" x 8U x 445mm
ELP-33521	2400W	60VDC	0 - 480A	19" x 8U x 445mm
ELP-33531	3600W	60VDC	0 - 480A	19" x 8U x 445mm
ELP-33541	3600W	60VDC	0 - 720A	19" x 8U x 445mm
ELP-33512	5400W	60VDC	0 - 360A	19" x 12U x 445mm
ELP-33532	5400W	60VDC	0 - 720A	19" x 12U x 445mm
ELP-33513	7200W	60VDC	0 - 480A	19" x 16U x 445mm
ELP-33514	9000W	60VDC	0 - 600A	19" x 20U x 445mm
ELP-33515	10800W	60VDC	0 - 720A	19" x 24U x 445mm

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-33501	ELP-33511	ELP-33521	ELP-33531	ELP-33541
Over Power Protection	≈ 2520W	≈ 3780W	≈ 2520W	≈ 3780W	≈ 3780W
Over Current Protection	≈ 252A	≈ 252A	≈ 504A	≈ 504A	≈ 756A
Over Voltage Protection	≈ 63V	≈ 63V	≈ 63V	≈ 63V	≈ 63V
Over Temp. Protection	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C
CC Mode					
Range 1	0 - 24A	0 - 24A	0 - 48A	0 - 48A	0 - 72A
Range 1 Resolution	6.4mA	6.4mA	12.8mA	12.8mA	19.2mA
Range 2	24 - 240A	24 - 240A	48 - 480A	48 - 480A	72 - 720A
Range 2 Resolution	64mA	64mA	128mA	128mA	192mA
Accuracy	± 0.2% of (setting + range)				
CR Mode					
Range 1	0.0134Ω - 0.25Ω	0.0134Ω - 0.25Ω	0.0066Ω - 0.125Ω	0.0066Ω - 0.125Ω	0.0044Ω - 0.083Ω
Range 1 Resolution	0.067mΩ	0.067mΩ	0.033mΩ	0.033mΩ	0.022mΩ
Range 2	0.25 - 937.5Ω	0.25 - 937.5Ω	0.125 - 468.7Ω	0.125 - 468.7Ω	0.083 - 312.5Ω
Range 2 Resolution	1.066mS	1.066mS	2.133mS	2.133mS	3.2mS
Accuracy	± 0.2% of (setting + range)				
CV Mode					
Range	0 - 60V				
Resolution	0.016V				
Accuracy	± 0.1% of (setting + range)				
CP Mode					
Range 1	0 - 2400W	0 - 3600W	0 - 2400W	0 - 3600W	0 - 3600W
Range 1 Resolution	0.64W	0.96W	0.64W	0.96W	0.96W
Accuracy	± 0.5% of (setting + range)				
4½ DVM					
Range 1	0 - 15.00V				
Range 1 Resolution	0.5mV				
Range 2	15.00 - 60.00V				
Range 2 Resolution	2mV				
Accuracy	± 0.05% of (reading + range)				
4½ DAM					
Range 1	0 - 24A	0 - 24A	0 - 48A	0 - 48A	0 - 72A
Range 1 Resolution	0.8mA	0.8mA	1.6mA	1.6mA	2.4mA
Range 2	24 - 240A	24 - 240A	48 - 480A	48 - 480A	72 - 720A
Range 2 Resolution	8mA	8mA	16mA	16mA	24mA
Accuracy	± 0.5% of (reading + range)				
Dynamic					
Slew Rate 1	16mA - 1A/μs	16mA - 1A/μs	32mA - 2A/μs	32mA - 2A/μs	48mA - 3A/μs
Slew Rate 2	160mA - 10A/μs	160mA - 10A/μs	320mA - 20A/μs	320mA - 20A/μs	480mA - 30A/μs
Thigh & Tlow	50μs - 9.999 sec				
Accuracy	± 10% ± 10μs				
Other					
Load ON voltage	0.1 - 25.0V, 1% of (setting & range)				
Load OFF voltage	0 - 25.0V, 0.05% of (setting & range)				
Max. Short Resistance	0.0025Ω	0.0017Ω	0.0015Ω	0.0013Ω	0.001Ω
Imonitor (Isolated)	24A/V	24A/V	48A/V	48A/V	72A/V

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Technical Data

	ELP-33512	ELP-33532	ELP-33513	ELP-33514	ELP-33515
Over Power Protection	≈ 5670W	≈ 5670W	≈ 7560W	≈ 9450W	≈ 11340W
Over Current Protection	≈ 378A	≈ 756A	≈ 504A	≈ 630A	≈ 756A
Over Voltage Protection	≈ 63V	≈ 63V	≈ 63V	≈ 63V	≈ 63V
Over Temp. Protection	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C	≈ 85 °C
CC Mode					
Range 1	0 - 36A	0 - 72A	0 - 48A	0 - 60A	0 - 72A
Range 1 Resolution	9.6mA	19.2mA	12.8mA	16mA	19.2mA
Range 2	36 - 360A	72 - 720A	48 - 480A	60 - 600A	72 - 720A
Range 2 Resolution	96mA	192mA	128mA	160mA	192mA
Accuracy	± 0.2% of (setting + range)				
CR Mode					
Range 1	0.0088Ω - 0.1666Ω	0.0044Ω - 0.083Ω	0.0066Ω - 0.125Ω	0.0052Ω - 0.1Ω	0.0046Ω - 0.0833Ω
Range 1 Resolution	0.044mΩ	0.022mΩ	0.033mΩ	0.026mΩ	0.023mΩ
Range 2	0.1666 - 625Ω	0.083 - 312.5Ω	0.125 - 468.7Ω	0.1 - 375Ω	0.0833 - 312.37Ω
Range 2 Resolution	1.66mS	3.2mS	2.133mS	2.66mS	3.201mS
Accuracy	± 0.2% of (setting + range)				
CV Mode					
Range	0 - 60V				
Resolution	0.016V				
Accuracy	± 0.1% of (setting + range)				
CP Mode					
Range 1	0 - 5400W	0 - 5400W	0 - 7200W	0 - 9000W	0 - 10800W
Range 1 Resolution	1.44W	1.44W	1.92W	2.4W	2.88W
Accuracy	± 0.5% of (setting + range)				
4½ DVM					
Range 1	0 - 15.00V				
Range 1 Resolution	0.5mV				
Range 2	15.00 - 60.00V				
Range 2 Resolution	2mV				
Accuracy	± 0.05% of (reading + range)				
4½ DAM					
Range 1	0 - 36A	0 - 72A	0 - 48A	0 - 60A	0 - 72A
Range 1 Resolution	1.2mA	2.4mA	1.6mA	2mA	2.4mA
Range 2	36 - 360A	72 - 720A	48 - 480A	60 - 600A	72 - 720A
Range 2 Resolution	12mA	24mA	16mA	20mA	24mA
Accuracy	± 0.2% of (reading + range)				
Dynamic					
Slew Rate 1	24mA - 1.5A/μs	48mA - 3A/μs	32mA - 2A/μs	40mA - 2.5A/μs	48mA - 3A/μs
Slew Rate 2	240mA - 15A/μs	480mA - 30A/μs	320mA - 20A/μs	400mA - 25A/μs	480mA - 30A/μs
Thigh & Tlow	50μs - 9.999 sec				
Accuracy	± 10% ± 10μs				
Other					
Load ON voltage	0.1 - 25.0V, 1% of (setting & range)				
Load OFF voltage	0 - 25.0V, 0.05% of (setting & range)				
Max. Short Resistance	0.002Ω	0.001Ω	0.0015Ω	0.0012Ω	0.001Ω
Imonitor (Isolated)	36A/V	72A/V	48A/V	60A/V	72A/V

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