

ELP-3350

High Current DC Load

Description

These high current DC Sources offer an incredible amount of functionality for the cost. The large front panel display shows voltage, current and power simultaneously. Both IEEE 488.2 and RS232 interfaces with SCPI and LabVIEW drivers are provided as standard making the ELP-3350 series ideal for system integration. The unit can be set to operate in constant current, resistance, voltage and power operating modes. True dynamic operation is available in CC & CP modes. This enables the user to simulate real world load conditions by switching between current levels and adjusting the rise and fall times. To alter the frequency and duty cycle the total time that the waveform is high and low can also be adjusted remotely or locally. An external input is provided so that the load can follow a signal from an arbitrary waveform generator. A BNC output is also available to monitor the current waveform on an external oscilloscope. The ELP-3350 series is also built with an OCP, OPP and short test function. The time that the load simulates a short circuit can be set along with the short voltage high and low levels. The actual short circuit voltage and current can be measured. The easy to use front panel memory function is ideal for quickly implementing common test procedures when the unit is used on the benchtop. A GO/NG meter check along with a programmable load on and load off voltage ensures this unit is suitable for a wide range of applications.



- CC, CR, CV, CP, dynamic & short mode
- OCP, OPP & short test functions
- IEEE488.2 & RS232 interfaces
- Automatic sense adjustment
- Scope output

Selection Table

Part Number	Maximum Power	Maximum Voltage	Maximum Current	Dimensions (Width x Height x Depth)
ELP-3356	600W	60VDC	0 - 120A	19" x 4U x 445mm
ELP-3350	1200W	60VDC	0 - 120A	19" x 4U x 445mm
ELP-3351	1800W	60VDC	0 - 120A	19" x 4U x 445mm
ELP-3352	1200W	60VDC	0 - 240A	19" x 4U x 445mm
ELP-3353	1800W	60VDC	0 - 240A	19" x 4U x 445mm
ELP-3354	1800W	60VDC	0 - 360A	19" x 4U 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



Technical Data

	ELP-3356	ELP-3350	ELP-3351	ELP-3352	ELP-3353	ELP-3354
Over Power Protection	~ 630W	~ 1260W	~ 1890W	~ 1260W	~ 1890W	~ 1890W
Over Current Protection	~ 126A	~ 126A	~ 126A	~ 252A	~ 252A	~ 378A
Over Voltage Protection	~ 63V	~ 63V	~ 63V	~ 63V	~ 63V	~ 63V
Over Temp. Protection	~ 85°C	~ 85°C	~ 85°C	~ 85°C	~ 85°C	~ 85°C
CC Mode						
Range 1	0 - 12A	0 - 12A	0 - 12A	0 - 24A	0 - 24A	0 - 36A
1 Resolution	3.2mA	3.2mA	3.2mA	6.4mA	6.4mA	9.6mA
2	12 - 120A	12 - 120A	12 - 120A	24 - 240A	24 - 240A	36 - 360A
2 Resolution	32mA	32mA	32mA	64mA	64mA	96mA
Accuracy	± 0.2% of (setting + range)					
CR Mode						
Range 1	0.0266 - 0.5	0.0268 - 0.5	0.0268 - 0.5	0.0134 - 0.25	0.0134 - 0.25	0.0088 - 0.167
1 Resolution	0.133m	0.134m	0.134m	0.067m	0.067m	0.044mS
2	0.5 - 4875	0.5 - 1875	0.5 - 1875	0.25 - 937.5	0.25 - 937.5	0.167 - 624.9
2 Resolution	0.533mS	0.533mS	0.533mS	1.066mS	1.066mS	1.6mS
Accuracy	± 0.2% of (setting + range)					
CV Mode						
Range	0 - 60V					
Resolution	0.016mV					
Accuracy	± 0.1% of (setting + range)					
CP Mode						
Range 1	0 - 600W	0 - 1200W	0 - 1800W	0 - 1200W	0 - 1800W	0 - 1800W
1 Resolution	0.16W	0.32W	0.48W	0.32W	0.48W	0.48W
Accuracy	± 0.5% of (setting + range)					
4½ DVM						
Range	0 - 15.00V					
Resolution	0.001V					
Range	60.00V					
Resolution	0.01V					
Accuracy	± 0.05% of (reading + range)					
4½ DAM						
Range 1	0 - 12.000A	0 - 12.000A	0 - 12.000A	0 - 24.00A	0 - 24.00A	0 - 36.00A
1 Resolution	0.001A	0.001A	0.001A	0.01A	0.01A	0.01A
2	12 - 120.00A	12 - 120.00A	12 - 120.00A	24 - 240A	24 - 240A	36 - 360.0A
2 Resolution	0.01A	0.01A	0.01A	0.1A	0.1A	0.1A
Accuracy	± 0.2% of (reading + range)					
Dynamic						
Slew Rate 1	8mA - 0.5A/µs	8mA - 0.5A/µs	8mA - 0.5A/µs	16mA - 1A/µs	16mA - 1A/µs	24mA - 1.5A/µs
Slew Rate 2	80mA - 5A/µs	80mA - 5A/µs	80mA - 5A/µs	160mA - 10A/µs	160mA - 10A/µs	240mA - 15A/µs
Thigh & Tlow	50µs - 9.999 sec					
Accuracy	± 10% ± 10µs					
Load ON voltage	0.1 - 25.0V, 1% of (setting & range)					
Load OFF voltage	0.1 - 25.0V, 0.05% of (setting & range)					
Max. Short Resistance	0.004	0.003	0.002	0.002	0.002	0.001
Imonitor (Isolated)	12A/V	12A/V	12A/V	24A/V	24A/V	36A/V
Weight	19.4kg	19.4kg	23.6kg	19.4kg	23.6kg	23.6kg