ETPS Limited

Unit 14, The Bridge, Beresford Way
Chesterfield, Derbyshire, S41 9FG, UK
Tel: + 44 (0) 1246 452909
Fax: + 44 (0) 1246 452942
Web: www.etps.co.uk
Email: sales@etps.co.uk
Sales: 0800 612 95 75

ELP-3370

Compact High Current DC Load

Description

This range of High Power Electronic Loads provides a high current sink capability of 1000Amps from 0.7V. These units have two load ranges one at 0-100A and the other at 100-1000A with auto crossover in CC mode. The range comprises of 5 models from 5kW to 25kW all units can operate in CC, CV, CR, CP, Dynamic and Short Modes. The current Slew Rate is adjustable for both ranges and to aid production testing to a pre-set value the unit is equipped with a GO/NG indicator. The units have 150 memory locations with auto sequence capability to speed up changes of test parameters. A full set of optional interfaces are available including IEEE, RS232, USB & LAN LabVIEW drivers are also available. The LCD display simultaneously shows Voltage, Current & Power. The 5kW unit is supplied with a carry harness for ease of installation.

- CC, CR, CV, CP, Dynamic & Short modes
- Single Key OCP & OPP Test Function
- Protection for OV,OC, OP & OT
- AC Input 115/230Vac Selectable
- Simultaneous V, I & W display
- High Current sink at 1000A

Selection Table

Part Number	Range 1 Power	Range 1 Voltage	Range 1 Current	Range 2 Power	Range 2 Voltage	Range 2 Current
ELP-3370	5kW	0 - 60VDC	0 - 100A	5kW	0 - 60VDC	0 - 1000A
ELP-33701	10kW	0 - 60VDC	0 - 100A	10kW	0 - 60VDC	0 - 1000A
ELP-33702	15kW	0 - 60VDC	0 - 100A	15kW	0 - 60VDC	0 - 1000A
ELP-33703	20kW	0 - 60VDC	0 - 100A	20kW	0 - 60VDC	0 - 1000A
ELP-33704	25kW	0 - 60VDC	0 - 100A	25kW	0 - 60VDC	0 - 1000A

Options Table

Code	Description
/LT	IEEE488.2 (GPIB) interface card
/RS232	RS-232 interface card
/USB	USB interface card
/LAN	LAN interface card
/0001	1m IEEE 488.2 cable
/0002	2m IEEE 488.2 cable
/0003	2m RS-232 cable
/1KAxM	1000A load cable (1m - 5m available, please specify)

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Technical Data

General Specifications

ELP - 3370 Series

Basic Ranges	Range 1	Range 2
Current Range	0 - 100A	0 - 1000A
Voltage Range	0 - 60VDC	
Min Operating Voltage	0.1V @ 100A	0.7V @ 1000A
CC Mode		
Current Sink Value	0 - 100A	0 - 1000A
Resolution	1.667mA	16.67mA
Accuracy	± 0.1% + 0.2% F.S.	
Additional CC Function	Auto range crossover	
CR Mode		
Resistance Sink Value	0.001 - 0.06Ω	0.06 - 3600Ω
Resolution	16 bits	
Accuracy	± 0.2% of (Setting + Range)	
CV Mode		
Voltage Sink Value	0 - 6V	0 - 60V
Resolution	0.1mV	1mV
Accuracy	± 0.05% + 0.05% F.S.	
Dynamic Operation		
Thigh & Tlow	0.05 - 9.999 / 99.99 / 999.9 /9999ms	
Resolution	0.001 / 0.01 / 0.1 / 1ms	
Accuracy	1µs / 10µs / 100µs / 1ms + 50ppm	
Slew Rate Range	66.4 - 4.15A/µs	664 - 4.15A/µs
Slew Rate Resolution	16.6mA/µs	166mA/µs
Minimum Rise Time	typically 24µs	
Current Range	0 - 100A	100 - 1000A
Current Resolution	1.667mA	16.67mA
Accuracy	0.1% + 0.1% F.S.	
5 Digit Voltmeter		
Range	0 - 6V	6 - 60V
Resolution	16 bits	
Accuracy	± 0.025% + 0.025% F.S.	
5 Digit Ammeter		
Range	0 - 100A	100 - 1000A
Resolution	16 bits	
Accuracy	± 0.1% + 0.1% F.S.	

Unit-Specific Data

Basic Ranges	ELP - 3370		ELP - 33701		ELP - 33702		ELP - 33703		ELP - 33704	
	Range 1	Range 2	Range 1	Range 2	Range 1	Range 2	Range 1	Range 2	Range 1	Range 2
Maximum Power* *	5kW		10kW		15kW		20kW		25kW	
CP Mode										
Power Sink Value	0 - 0.5kW	0 - 5kW	0 - 1kW	0 - 10kW	0 - 1.5kW	0 - 15kW	0 - 2kW	0 - 20kW	0 - 2.5kW	0 - 25kW
Resolution	8.334mW	83.34mW	16.67mW	166.67mW	25mW	250mW	33.34mW	333.34mW	41.67mW	416.67mW
Accuracy	± 0.5% + 0.5% F.S.									
5 Digit Powermeter										
Range	0 - 0.5kW	0 - 5kW	0 - 1kW	0 - 10kW	0 - 1.5kW	0 - 15kW	0 - 2kW	0 - 20kW	0 - 2.5kW	0 - 25kW
Resolution	0.01W	0.1W	0.02W	0.2W	0.03W	0.3W	0.04W	0.4W	0.05W	0.5W
Accuracy	± 0.125% + 0.125% F.S. (Power F.S. = V range F.S. * I range F.S.)									
Other										
Short Circuit (Current)	1000A									
Power Consumption (max)	600W		1200W		1800W		2400W		3000W	
Operating Temperature*	0 - 40°C									
Temperature Coefficient	100ppm/°C (typical)									
Dimensions (W x H x D)	440 x 177 x 628.5mm		448 x 533.5 x 710mm		448 x 710.5 x 710mm		448 x 887.5 x 710mm		448 x 1064.5 x 710mm	
Weight	45kg		95.3kg		140.3kg		185.3kg		230.3kg	

* Operating Temperature is 0 - 40ºC. All measurements taken at 25ºC ± 5ºC, except where noted

* *Maximum Power specification at 30ºC de-rate at -1.5%/ºC to 40ºC