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# 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			Range 2		
	Power	Voltage	Current	Power	Voltage	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
/ GPIB.....	GPIB (IEEE 488.2) 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)

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. Please note that your actual unit may differ from that shown.



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## Technical Data

### General Specifications

	ELP - 3370 Series									
	Range 1	Range 2								
<b>Basic Ranges</b>										
Current Range	0 - 100A	0 - 1000A								
Voltage Range	0 - 60VDC									
Min Operating Voltage	0.1V @ 100A	0.7V @ 1000A								
<b>CC Mode</b>										
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									
<b>CR Mode</b>										
Resistance Sink Value	0.001 - 0.06Ω	0.06 - 3600Ω								
Resolution	16 bits									
Accuracy	± 0.2% of (Setting + Range)									
<b>CV Mode</b>										
Voltage Sink Value	0 - 6V	0 - 60V								
Resolution	0.1mV	1mV								
Accuracy	± 0.05% + 0.05% F.S.									
<b>Dynamic Operation</b>										
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.									
<b>5 Digit Voltmeter</b>										
Range	0 - 6V	6 - 60V								
Resolution	16 bits									
Accuracy	± 0.025% + 0.025% F.S.									
<b>5 Digit Ammeter</b>										
Range	0 - 100A	100 - 1000A								
Resolution	16 bits									
Accuracy	± 0.1% + 0.1% F.S.									
<b>Unit-Specific Data</b>										
<b>Basic Ranges</b>										
Maximum Power**	5kW	10kW	15kW	20kW	25kW					
<b>CP Mode</b>										
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.									
<b>5 Digit Powermeter</b>										
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.)									
<b>Other</b>										
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 - 40°C. All measurements taken at 25°C ± 5°C, except where noted

\*\*Maximum Power specification at 30°C de-rate at -1.5%/°C to 40°C

