

ELP-3360PF

HIGH VOLTAGE HIGH POWER DC LOADS



POSITIVE PROBLEM SOLVING **+ =**

This series of high power loads are able to take up to 14.4kW 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.

- + Dynamic Operation with External Tracking**
- + Full Range of Computer Interfaces**
- + Front Panel Memory Function**
- + CC, CV, CP & CR Modes**
- + Ideal for PFC Testing**

ELP-3360PF

HIGH VOLTAGE HIGH POWER DC LOADS

FURTHER DETAILS

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-3360PF is used in many applications including PFC & current limit testing, transient response and battery charge/discharge simulation.

SELECTION TABLE

Part Number	Maximum Power	Maximum Voltage	Current Range	Dimensions [W × H × D]
ELP-33623F	7.2kW	500VDC	0 - 240A	596 × 1111 × 600mm*
ELP-33624F	9kW	500VDC	0 - 300A	596 × 1111 × 600mm*
ELP-33674F	9kW	500VDC	0 - 60A	596 × 1556 × 600mm*
ELP-33625F	10.8kW	500VDC	0 - 360A	596 × 1556 × 600mm*
ELP-33675F	10.8kW	500VDC	0 - 72A	596 × 1556 × 600mm*
ELP-33626F	12.6kW	500VDC	0 - 420A	596 × 1556 × 600mm*
ELP-33627F	14.4kW	500VDC	0 - 500A	596 × 1778 × 600mm*

*All cabinets fitted with caster wheels

OPTIONS

CODE	DESCRIPTION
/0001	1m IEEE488.2 cable
/0002	2m IEEE488.2 cable
/0003	2m RS-232 cable
/DSK	Disable short test function
/LT	Unit fitted with IEEE488.2 (GPIB) interface card
/RS232	Unit fitted with RS-232 interface card
/LT+RS232	Unit fitted with IEEE488.2 and RS-232 combination interface card
/USB	Unit fitted with USB interface card
/LAN	Unit fitted with Ethernet interface card

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd 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. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.

TECHNICAL DATA

	ELP-33623F	ELP-33624F	ELP-33674F	ELP-33625F	ELP-33675F	ELP-33626F	ELP-33627F
Load ON/OFF Voltage	Load ON: 0.4 - 100V, 1% of (setting + range); Load OFF: 0 - 100V, 0.05% of (setting + range)						
Min. Operation Voltage	4V for I _{MAX}	4V for I _{MAX}	6V for I _{MAX}	4V for I _{MAX}	6V for I _{MAX}	4V for I _{MAX}	4V for I _{MAX}
Short Circuit Current	240A	300A	60A	360A	72A	420A	504A
Temp. Coefficient	100ppm/ °C (typical)						
Max. Power Consumption	400W	500W	500W	600W	600W	700W	800W
Weight	161.4kg	185kg	185kg	208.6kg	208.6kg	232.2kg	268.8kg
Operating Temperature	0 to 40°C, all specification apply for 25°C ±5°C						
OP, OC, OV Protection	105% of rated input						
Over Temp. Protection	Yes (approximately 85°C)						

CC MODE

Range 1* [Resolution]	0 - 24A [0.4mA]	0 - 30A [0.5mA]	0 - 6A [0.1mA]	0 - 36A [0.6mA]	0 - 7.2A [0.12mA]	0 - 42A [0.7mA]	0 - 50A [0.84mA]
Range 2* [Resolution]	24 - 240A [4mA]	30 - 300A [5mA]	60 - 600A [1mA]	36 - 360A [6mA]	7.2 - 72A [1.2mA]	42 - 420A [7mA]	50 - 500A[8.4mA]
Accuracy	± 0.1% of (setting + range)						

*The range is automatically or forcing to range 2 only in CC mode

CR MODE

Range 1	0.0416 - 2.5Ω	0.0333 - 2Ω	0.1666 - 10Ω	0.0277 - 1.6666Ω	0.8333 - 8.333Ω	0.0238 - 1.4285Ω	0.02 - 1.2Ω
Range 1 Resolution	0.416mΩ	0.0333mΩ	0.1666mΩ	0.0277mΩ	0.3703mΩ	0.0238mΩ	0.02mΩ
Range 2	2.5Ω - 150kΩ	2Ω - 120kΩ	10Ω - 600kΩ	1.6666Ω - 100kΩ	8.333Ω - 500kΩ	1.4285Ω - 85.71Ω	1.2Ω - 72Ω
Range 2 Resolution	0.00066mS	0.128mS	0.0016mS	0.0166mS	0.0166mS	0.00033mS	0.0138mS
Accuracy	± 0.2% of (setting + range)						

CV MODE

Range 1 / 2	0 - 60V / 60 - 500V
Range 1 / 2 Resolution	0.001V / 0.01V
Accuracy	± 0.05% of (setting + range)

CP MODE

Range 1	0 - 720W	0 - 900W	0 - 900W	0 - 1080W	0 - 1080W	0 - 1260W	0 - 1440W
Range 2	720 - 7200W	900 - 9000W	900 - 9000W	1080 - 10800W	1080 - 10800W	1260 - 12600W	1440 - 14400W
Range 1 / 2 Resolution	12mW / 120mW	15mW / 150mW	15mW / 150mW	18mW / 180mW	18mW / 180mW	21mW / 210mW	24mW / 240W
Accuracy	± 0.5% of (setting + range)						

5-DIGIT VOLTMETER

Range 1 / 2	0 - 60V / 60 - 500V
Range 1 / 2 Resolution	0.001V / 0.01V
Accuracy	± 0.025% of (reading + range)

5-DIGIT AMMETER

Range 1 [Resolution]	0 - 24A [0.4mA]	0 - 30A [0.5mA]	0 - 6A [0.1mA]	0 - 36A [0.6mA]	0 - 7.2A [0.12mA]	0 - 42A [0.7mA]	0 - 50A [0.84mA]
Range 2 [Resolution]	24 - 240A [4mA]	30 - 300A [5mA]	6 - 60A [1mA]	36 - 360A [6mA]	7.2 - 72A [12mA]	42 - 420A [7mA]	50 - 500A[8.4mA]
Accuracy	± 0.1% of (reading + range)						

5-DIGIT POWERMETER

Range 1	0 - 720W	0 - 900W	0 - 900W	0 - 1080W	0 - 1080W	0 - 1260W	0 - 1440W
Range 2	720 - 7200W	900 - 9000W	900 - 9000W	1080 - 10800W	1080 - 10800W	1260 - 12600W	1440 - 14400W
Range 1 / 2 Resolution	0.12W	0.15W	0.15W	0.15W	0.15W	0.21W	0.24W
Accuracy	± 0.125% of (reading + range)						

DYNAMIC (CC MODE)

Thigh & Tlow	50μS - 9.999 / 99.99 / 999.9 / 9999mS						
Resolution	0.001 / 0.01 / 0.1 / 1mS						
Accuracy	1μS / 10μS / 100μS / 1mS + 50ppm						
Slew Rate 1	0.0192mA - 1.2A/μs	0.024A - 1.5A/μs	4.8mA - 0.3A/μs	0.0288A - 1.8A/μs	5.76mA-360mA/μs	0.0336A - 2.1A/μs	0.04A - 2.5A/μs
Slew Rate 2	0.192mA - 12A/μs	0.24A - 15A/μs	48mA - 3A/μs	0.288A - 18A/μs	57.6mA - 3.6A/μs	0.336A - 21A/μs	0.4A - 25A/μs
Resolution	4.8 / 48mA/μs	6 / 60mA/μs	1.2 / 12mA/μs	7.2 / 72mA/μs	1.44 / 14.4mA/μs	8.4 / 84mA/μs	10 / 100mA/μs
Accuracy / Min. Rise Time	Accuracy: [5% of setting] ± 10μS ; Minimum rise time: 20μS (typical)						



ETPS engineer electronic power supply and testing systems. Our problem solving skills provide the spark of innovation to some of the world's leading technology brands.



Tel: +44 (0) 1246 452909
Sales: 0800 612 95 75
sales@etps.co.uk
www.etps.co.uk

ETPS Ltd
Unit 14, The Bridge
Beresford Way, Chesterfield
S41 9FG



POSITIVE PROBLEM SOLVING