

ELP-3360F

HIGH VOLTAGE DC LOAD



POSITIVE PROBLEM SOLVING **+ =**

This series of 500Vdc electronic loads provides a wide range of current and power ranges. A wide range of computer interfaces are available upon request.

The high voltage makes these electronic loads ideal for Power Factor Correction testing along with a host of other production and laboratory applications. The front panel has an isolated BNC output so that the load current can be monitored on an external scope. The high accuracy 5 digit displays features 16 bit resolution. Dual setting ranges provide excellent measurement accuracy at low current.

- + CC, CR, CV, CP, Dynamic & Short Mode**
- + Full Selection of Computer Interfaces**
- + 150 Sets Store / Recall Memory**
- + LabVIEW Drivers**

ELP-3360F

HIGH VOLTAGE DC LOAD

FURTHER DETAILS

For production testing GO/NG limits can be set. When used in constant current or constant power mode the load can be set to operate dynamically. This enables the load current to be switched between two levels and the current rise and fall times adjusted.

The time that the load is at the higher sink level and the time it is at the lower setting can also be adjusted.

A short circuit test function is provided as standard. The short voltage and current can be read via the front panel or interface. If short circuit functions are not desired then the unit can be built without this feature.

The load can be set to turn on or off when a preset voltage is present at the load's terminals.

SELECTION TABLE

Part Number	Maximum Power	Maximum Voltage	Current Range	Dimensions [W x H x D]
ELP-3360F	600W	500VDC	0 - 20A	19" x 4U x 445mm
ELP-3361F	1200W	500VDC	0 - 40A	19" x 4U x 445mm
ELP-3362F	1800W	500VDC	0 - 60A	19" x 4U x 445mm
ELP-3367F	1800W	500VDC	0 - 12A	19" x 4U x 445mm
ELP-33611F	2400W	500VDC	0 - 80A	19" x 8U x 445mm*
ELP-33621F	3600W	500VDC	0 - 120A	19" x 8U x 445mm*
ELP-33671F	3600W	500VDC	0 - 24A	19" x 8U x 445mm*
ELP-33622F	5400W	500VDC	0 - 180A	19" x 8U x 445mm*
ELP-33672F	5400W	500VDC	0 - 36A	19" x 12U x 445mm*

* Unit shipped in wheeled cabinet 890mm max. height

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-3360F	ELP-3361F	ELP-3362F	ELP-3367F	ELP-33611F
Load ON/OFF Voltage	Load ON: 0.4 - 100V, 1% of [setting + 2.5V]; Load OFF: 0 - 100V, 0.025% of [setting + range]				
Min. Operation Voltage	4V for I_{MAX}	4V for I_{MAX}	4V for I_{MAX}	6V for I_{MAX}	4V for I_{MAX}
Short Circuit Current	20A	40A	60A	12A	80A
Temp. Coefficient	100ppm/ °C [typical]				
Max. Power Consumption	100W				
Weight	15.2kg	19.4kg	23.6kg	23.6kg	72.8kg
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 - 2A [0.033mA]	0 - 4A [0.066mA]	0 - 6A [0.1mA]	0 - 12A [0.02mA]	0 - 8A [0.133mA]
Range 2* [Resolution]	2 - 20A [0.33mA]	4 - 40A [0.66mA]	6 - 60A [1mA]	1.2 - 12A [0.2mA]	8 - 80A [1.33mA]
Accuracy	± 0.1% of [setting + range]				

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

CR MODE

Range 1	0.5 - 30Ω	0.25 - 15Ω	0.1666 - 10Ω	0.8333 - 50Ω	0.125 - 7.5Ω
Range 1 Resolution	0.5mΩ	0.25mΩ	0.1666mΩ	0.8333mΩ	0.125mΩ
Range 2	30Ω - 1800kΩ	15Ω - 900kΩ	10Ω - 600kΩ	50Ω - 3000kΩ	7.5 - 450kΩ
Range 2 Resolution	0.55μS	1.1μS	0.032mS	0.333μS	0.0022mS
Accuracy	± 0.2% of [setting + range]				

CV MODE

Range 1 / 2	0 - 60V / 60 - 500V				
Range 1 / 2 Resolution	0.1mV / 1mV				
Accuracy	± 0.05% of [setting + range]				

CP MODE

Range 1	0 - 60W	0 - 120W	0 - 180W	0 - 180W	0 - 240W
Range 2	0 - 600W	0 - 1200W	0 - 1800W	0 - 1800W	0 - 2400W
Range 1 / 2 Resolution	1mW / 10mW	2mW / 20mW	3mW / 30mW	3mW / 30mW	4mW / 40mW
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 - 2A [0.033mA]	0 - 4A [0.066mA]	0 - 6A [0.1mA]	0 - 12A [0.02mA]	0 - 8A [0.133mA]
Range 2 [Resolution]	2 - 20A [0.33mA]	4 - 40A [0.66mA]	6 - 60A [1mA]	1.2 - 12A [0.2mA]	8 - 80A [1.33mA]
Accuracy	± 0.1% of [reading + range]				

5-DIGIT POWERMETER

Range 1	0 - 60W	0 - 120W	0 - 180W	0 - 180W	0 - 240W
Range 2	0 - 600W	120 - 1200W	180 - 1800W	180 - 1800W	240 - 2400W
Range 1 / 2 Resolution	0.03W	0.03W	0.03W	0.03W	0.04W
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	1.6mA - 0.1A / μs	3.2mA - 0.2A / μs	4.8mA - 0.3A / μs	9.6mA - 0.6A / μs	6.4mA - 0.4A / μs
Slew Rate 2	16mA - 1A / μs	32mA - 2A / μs	48mA - 3A / μs	96mA - 6A / μs	64mA - 4A / μs
Resolution	0.4mA / 4mA / μs	0.8mA / 8mA / μs	1.2mA / 12mA / μs	0.24mA / 2.4mA / μs	1.6 / 16mA / μs
Accuracy / Min. Rise Time	Accuracy: [5% of setting] ± 10μS ; Minimum rise time: 20μS [typical]				

TECHNICAL DATA

	ELP-33621F	ELP-33671F	ELP-33622F	ELP-33672F
Load ON/OFF Voltage	Load ON: 0.4 - 100V, 1% of [setting + 2.5V]; Load OFF: 0 - 100V, 0.025% of [setting + range]			
Min. Operation Voltage	4V for I_{MAX}	6V for I_{MAX}	4V for I_{MAX}	6V for I_{MAX}
Short Circuit Current	120A	24A	180A	36A
Temp. Coefficient	100ppm/ °C [typical]			
Max. Power Consumption	200W	200W	300W	300W
Weight	81.2kg	81.2kg	104.8kg	104.8kg
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 - 12A [0.2mA]	0 - 2.4A [0.02mA]	0 - 18A [0.3mA]	0 - 3.6A [0.06mA]
Range 2* [Resolution]	12 - 120A [2mA]	2.4 - 24A [0.2mA]	18 - 180A [3mA]	3.6 - 36A [0.6mA]
Accuracy	± 0.1% of [setting + range]			

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

CR MODE

Range 1	0.833 - 5Ω	0.416 - 25Ω	0.0555 - 3.3333Ω	0.2775 - 16.66Ω
Range 1 Resolution	0.0833mΩ	0.416mΩ	0.0555mΩ	0.2775mΩ
Range 2	5Ω - 300kΩ	25Ω - 1500kΩ	3.3333Ω - 200kΩ	16.66Ω - 100KΩ
Range 2 Resolution	0.00033mS	0.00066mS	0.00033mS	0.01mS
Accuracy	± 0.2% of [setting + range]			

CV MODE

Range 1 / 2	0 - 60V / 60 - 500V			
Range 1 / 2 Resolution	1mV / 10mV			
Accuracy	± 0.05% of [setting + range]			

CP MODE

Range 1	0 - 360W	0 - 360W	0 - 540W	0 - 540W
Range 2	0 - 3600W	0 - 3600W	0 - 5400W	0 - 5400W
Range 1 / 2 Resolution	6mW / 60mW	6mW / 60mW	9mW / 90mW	9mW / 90mW
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 - 12A [0.2mA]	0 - 2.4A [0.02mA]	0 - 18A [0.3mA]	0 - 3.6A [0.06mA]
Range 2 [Resolution]	12 - 120A [2mA]	2.4 - 24A [0.2mA]	18 - 180A [3mA]	3.6 - 36A [0.6mA]
Accuracy	± 0.1% of [reading + range]			

5-DIGIT POWERMETER

Range 1	0 - 360W	0 - 360W	0 - 540W	0 - 540W
Range 2	360 - 3600W	360 - 3600W	540 - 5400W	540 - 5400W
Range 1 / 2 Resolution	0.06W	0.06W	0.09W	0.09W
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	9.6mA - 600mA / μs	1.92mA - 120mA / μs	14.4mA - 900mA / μs	2.88mA - 180mA / μs
Slew Rate 2	96mA - 6000mA / μs	19.2mA - 1200A / μs	144mA - 9A / μs	28.8mA - 1800mA / μs
Resolution	2.4mA / 24mA / μs	0.48mA / 4.8mA / μs	3.6mA / 36mA / μs	0.72mA / 7.2mA / μs
Accuracy / Min. Rise Time	Accuracy: [5% of setting] ± 10μS ;		Minimum rise time: 20μS [typical]	



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WE ARE
POSITIVE
PEOPLE
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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.



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POSITIVE PROBLEM SOLVING