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ELP-3330F

Dual Channel DC Electronic Load

Description

The ELP-3330F load modules offer 2 independently adjustable load channels in one module. Each channel has CC, CR, CV & CP operating modes along with a programmable short test function that measures the short voltage and current. Adjustable overcurrent and overpower protection test modes are also provided for testing PSU limits. When in constant current or power modes dynamic operation is possible allowing the load to switch between 2 current levels. The slew rate along with the time spent at the higher and lower load levels can be adjusted. Remote sense capability is also provided to counter voltage drops in the load lines. The voltage at which the Load switches on and off can be preset making these units ideal for sensitive applications such as battery discharging. Limits can be set to flag GO/NG indication making these units ideal for batch and production testing as well as general laboratory work. The 5 digit high resolution display shows Voltage, current and power simultaneously for both load channels. These dual channel load modules are operated from within single, dual or 4 slot mainframes. A fully populated ELP-3300F takes only 4U of rack space and provides 8 independent channels. LAN, USB, RS232 and IEEE 488.2 interfaces are optionally available. The mainframes also have a memory function allowing setups to be quickly stored and recalled.



- CC, CR, CV, CP and dynamic operation
- Adjustable OCP, OPP & short tests
- Selectable Load ON/OFF voltage
- 5 digit V, I & W display

Selection Table

Part Number	Channel A			Channel B		
	Power	Voltage	Current	Power	Voltage	Current
ELP-3330F	250W	80VDC	0 - 60A	50W	80VDC	0 - 6A
ELP-3332F	120W	80VDC	0 - 24A	120W	80VDC	0 - 24A
ELP-3336F	40W	80VDC	0 - 3A	40W	80VDC	0 - 3A

Options Table

Code	Description
/3302F.....	Single slot mainframe (separate summary available)
/3305F.....	Dual slot mainframe (separate summary available)
/3300F.....	Four slot mainframe (separate summary available)
/GPIB.....	Mainframe selection includes GPIB interface card
/RS232.....	Mainframe selection includes RS232 interface card
/RS232+GPIB.....	Mainframe selection includes combination RS232 and GPIB card
/LAN.....	Mainframe selection includes LAN interface card
/USB.....	Mainframe selection includes USB interface card
/DSK.....	Disable short test function key
/0001.....	1m IEEE488.2 cable
/0002.....	2m IEEE488.2 cable
/0003.....	2m RS232 cable
/9931.....	Remote controller



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Technical Data

	ELP-3330F		ELP-3332F		ELP-3336F	
	CH1	CH2	CH1	CH2	CH1	CH2
Maximum Power	250W	50W	120W	120W	40W	40W
Current Range	0 - 60A	0 - 6A	0 - 24A	0 - 24A	0 - 3A	0 - 3A
Voltage Range	0 - 80V	0 - 80V	0 - 80V	0 - 80V	0 - 80V	0 - 80V
Vmin to Sink Full Current	0.8V for 60A	0.8V for 6A	0.8V for 24A	0.8V for 24A	0.3V for 3A	0.3V for 3A
CC Mode						
Range 1	0 - 6A	0 - 600mA	0 - 2.4A	0 - 2.4A	0 - 300mA	0 - 300mA
Range 1 Resolution	100µA	10µA	40µA	40µA	5µA	5µA
Range 2	0 - 60A	0 - 60A	0 - 24A	0 - 24A	0 - 3A	0 - 3A
Range 2 Resolution	1mA	100µA	400µA	400µA	50µA	50µA
Accuracy	± 0.1% of setting + 0.1% of full scale range					
CR Mode						
Range 1	0.01335 - 1.335KΩ		0.0333 - 3.33KΩ		0.267 - 26.7KΩ	
Range 1 Resolution	16 bits		16 bits		16 bits	
Range 2	1.335 - 80.1KΩ		3.33 - 199.8kΩ		26.7 - 1602kΩ	
Range 2 Resolution	16 bits		16 bits		16 bits	
Accuracy	± 0.2% of setting + 0.2% of full scale range					
CV Mode						
Range 1	0 - 6V		0 - 6V		0 - 6V	
Range 1 Resolution	135µV		135µV		135µV	
Range 2	0 - 80V		0 - 80V		0 - 80V	
Range 2 Resolution	1.35mV		1.35mV		1.35mV	
Accuracy	± 0.05% of setting + 0.05% of full scale range					
CP Mode						
Range	0 - 25W	0 - 5W	0 - 12W	0 - 12W	0 - 4W	0 - 4W
Resolution	417µW	84µW	200µW	200µW	67µW	67µW
Range	0 - 250W	0 - 50W	0 - 120W	0 - 120W	0 - 40W	0 - 40W
Resolution	4.17mW	10mW	2mW	2mW	670µW	670µW
Accuracy	± 0.5% of (setting + range)					
Dynamic Operation						
Thigh & Tlow	50µSec to 9.999Sec					
Slew Rate 1	4 - 250mA/µsec	0.4 - 25mA/µsec	1.6 - 100mA/µsec	1.6 - 100mA/µsec	0.2 - 12.5mA/µsec	0.2 - 12.5mA/µsec
Slew Rate 2	40 - 2500mA/µsec	4 - 250mA/µsec	16 - 1000/µsec	16 - 1000/µsec	2 - 125mA/µsec	2 - 125mA/µsec
Resolution	8 bits					
Accuracy	± (5% of setting) ± 10µs					
Minimum Rise Time	typically 24µs					
Voltage Readback						
Range 1	0 - 6V					
Range 1 Resolution	100µV					
Range 2	6 - 81V					
Range 2 Resolution	1.35mV					
Accuracy	± 0.025% of reading + 0.025% of range					
Current Readback						
Range 1	0 - 6A	0 - 600mA	0 - 2.4A	0 - 2.4A	0 - 300mA	0 - 300mA
Range 1 Resolution	100µA	10µA	40µ	40µ	5µA	5µA
Range 2	6 - 60A	0.6 - 6A	2.4 - 24A	2.4 - 24A	0.3 - 3A	0.3 - 3A
Range 2 Resolution	1mA	100µA	400µA	400µA	50µA	50µA
Accuracy	± 0.1% of reading + 0.1% of range					
Other						
Load On Voltage	0.1 - 25V (resolution 0.1V)					
Accuracy	± 1% of setting + 0.25V					
Load Off Voltage	0 - 25V (resolution 1.35mV)					
Accuracy	± 0.025% of setting + 0.025% of range					
Operating Temperature	0 to +40°C (specifications characterised at 25°C ± 5°C)					
Temperature Coefficient	typically 100ppm/°C					
Protections	Over temperature, Over Power/ Voltage /Current at 105% of full scale values					
Short Circuit Current	60A	6A	24A	24A	3A	3A

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.