ELECTRONIC TEST & POWER SYSTEMS

ELP-3350F

HIGH CURRENT DC LOAD

POSITIVE PROBLEM SOLVING

These high current DC loads offer an incredible amount of functionality for the cost. The large front panel display shows voltage, current and power simultaneously.

A full range of computer interfaces are available upon request. LabVIEW drivers can also be provided, making the ELP-3350F series ideal for larger system integration. The unit can be set to operate in constant current, resistance, voltage and power operating modes. True dynamic operation is available in CC & CP modes. This enables the user to simulate real world load conditions by switching between current levels and adjusting the rise and fall times.

- CC, CR, CV, CP, Dynamic & Short Mode
- Full Range of Computer Interfaces
- OCP, OPP & Short Test Functions
- Automatic Sense Adjustment
- Scope Output

FURTHER DETAILS

To alter the frequency and duty cycle the total time that the waveform is high and low can also be adjusted remotely or locally.

An external input is provided so that the load can follow a signal from an arbitrary waveform generator. A BNC output is also available to monitor the current waveform on an external oscilloscope.

The ELP-3350F series is also built with an OCP, OPP and short test function. The time that the load simulates a short circuit can be set along with the short voltage high and low levels. The actual short circuit voltage and current can be measured.

The easy to use front panel memory function is ideal for quickly implementing common test procedures when the unit is in use.

A GO/NG meter check along with a programmable load on and load off voltage ensures this unit is suitable for a wide range of applications.

SELECTION TABLE

Part Number	Maximum Power	Maximum Voltage	Current Range	Dimensions (W × H × D)
ELP-3356F	600W	60VDC	0 - 120A	19" × 4U × 445mm
ELP-3350F	1200W	60VDC	0 - 120A	19" × 4U × 445mm
ELP-3351F	1800W	60VDC	0 - 120A	19" × 4U × 445mm
ELP-3352F	1200W	60VDC	0 - 240A	19" × 4U × 445mm
ELP-3353F	1800W	60VDC	0 - 240A	19" × 4U × 445mm
ELP-3354F	1800W	60VDC	0 - 360A	19" × 4U × 445mm

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

TECHNICAL DATA

	ELP-3356F	ELP-3350F	ELP-3351F	ELP-3352F	ELP-3353F	ELP-3354F
OP, OC, OV Protection	105%					
Over Temp. Protection	≈ 85°C					
Short Circuit Test	120A			240A		360A
Load ON/OFF Voltage	ON: 0.1 - 25.0V, 1% of setting + 0.25V, OFF: 0 - 25V, 0.025% + 0.025% F.S.					
Min. Operating Voltage	0.6V for I_{MAX}		0.4V for I_{MAX}	0.7V for I_{MAX}		
Power Consumption (Max)	80W					
Weight	15.2kg	19.4kg	23.6kg	19.4kg	23.6kg	23.6kg
Operating Temperature	0 - 40°C (all specifications apply at 25°C ± 5°C)					
Temperature Coefficient	100ppm/°C (typical)					

CC MODE			
Range 1* (Resolution)	0 - 12A (0.2mA)	0 - 24A (0.4mA)	0 - 36A (0.6mA)
Range 2* (Resolution)	12 - 120A (2mA)	24 - 240A (4mA)	36 - 360A (6mA)
Accuracy	± 0.1% + 0.1% F.S.		

* Automatic range in CC Mode

CR MODE			
Range 1	0.0083Ω - 0.5Ω	0.0041Ω - 0.25Ω	0.0027Ω - 0.167Ω
Range 2	0.5 - 30KΩ	0.25 - 15KΩ	0.167 - 10KΩ
Resolution (R1 / R2)	0.0083mΩ / 0.033mS	0.0041mΩ / 0.066mS	0.0027mΩ / 0.1mS
Accuracy	± 0.2% of (setting + range)		

CV MODE	
Range 1 (Resolution)	0 - 6V (0.1mV)
Range 2 (Resolution)	6 - 60V (1mV)
Accuracy	± 0.05% + 0.05% F.S.

CP MODE						
Range 1	0 - 60W	0 - 120W	0 - 180W	0 - 120W	0 - 180W	0 - 180W
Range 1 Resolution	1mW	2mW	3mW	2mW	3mW	3mW
Range 2	60 - 600W	120 - 1200W	180 - 1800W	120 - 1200W	180 - 1800W	180 - 1800W
Range 2 Resolution	10mW	2mW	30mW	20mW	30mW	30mW
Accuracy	± 0.5% + 0.5% F.S.					

5-DIGIT VOLTAGE	
Range (R1 / R2)	0 - 6V / 6 - 60V
Resolution (R1 / R2)	0.1mV / 1mV
Accuracy	± 0.025% + 0.025% F.S.

5-DIGIT AMMETER			
Range 1 (Resolution)	0 - 12A (0.2mA)	0 - 24A (0.4mA)	0 - 36A (0.6mA)
Range 2 (Resolution)	12 - 120A (2mA)	24 - 240A (4mA)	36 - 360A (6mA)
Accuracy	± 0.1% + 0.1% F.S.		

5-DIGIT POWERMETER						
Range	0 - 600W	0 - 1200W	0 - 1800W	0 - 1200W	0 - 1800W	0 - 1800W
Resolution	0.0001W					
Accuracy	± 0.125% + 0.125% F.S.					

DYNAMIC			
Thigh & Tlow	50µs - 9.999 / 99.99 / 999.9 / 9999mS		
Accuracy	1µS / 10µS / 100µS / 1mS + 50ppm		
Resolution	0.001 / 0.01 / 0.1 / 1mS		
Slew Rate 1	8mA - 0.5A / µs	16mA - 1A / µs	24mA - 1.5A / µs
Slew Rate 2	80mA - 5A / µs	160mA - 10A / µs	240mA - 15A / µs
Resolution	8 bits		
Accuracy	(5% of setting) ± 10µS		
Minimum Rise Time	24µS (typical)		

“WE ARE POSITIVE PEOPLE”

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