LS Series

Linear AC Power Sources

Overview

Our LS Series linear AC power sources provide clean, regulated power at competitive prices. Linear technology and a direct coupled output reduce total harmonic distortion (THD) across the instrument's output frequency range and improves performance for high crest factor loads. There are four LED displays that monitor voltage, current, frequency, power and power factor while the easy-to-use local push-button interface allows operators to quickly set and change test parameters on the fly. Built-in safety features protect the instrument, the operator, and the DUT ensuring a safe work environment.

Highlights

- 3 built-in memory locations
- Metering circuits monitor voltage, current, frequency and power
- Constant current output with over current fold back feature
- Front panel lockout
- Programmable high and low limits for voltage, current and frequency
- Low range metering into milliwatts for power (Option)
- Push button interface for easy setup
- Test/Reset key quickly disables output voltage
- Front panel calibration

Options

- Grounded Neutral

APT...Power to the Customer!

2 YEAR Warranty

1 Day Guaranteed Shipment

3 Day Turnaround On All Repairs

45 Day Return Policy

Toll Free: +1-877-322-7693

Specifications - LS Series

INPUT			LS 500	LS 1000
Phase			1Φ	
Voltage			115/230 VAC Selectable ± 10% Variation	
Frequency			50/60 Hz ± 5%	
OUTPUT				
Voltage			0 - 300 VAC	
Max Power			500 VA	1 kVA
Max Current 1Φ	0 - 150 V		4.2 A @ 120 V	8.4 A @ 120 V
	0 - 300 V		2.1 A @ 240 V	4.2 A @ 240 V
Phase			1Φ	
Frequency			45 - 500 Hz	
THD			<0.5% @ 45-500 Hz (Resistive Load)	
Crest Factor			≥ 4	
Line Regulation			± 0.1 V	
Load Regulation			±0.5% (Resistive Load)	
MEASUREMENT				
Voltage	Range		0.0 - 300.0 V	
	Accuracy		±(1.5% of reading + 2 counts)	
Frequency	Range		0.0 - 500.0 Hz	
	Accuracy		±0.1 Hz	
Current (rms)	Range	L	0.000 - 3.500 A (2.0 mA Option 5)	
		H	3.0 - 35.00 A	
	Accuracy		±(2.0% of reading + 3 counts) for high range ±(2.0% of reading + 5 counts) for low range (±0.6% of reading + 5 counts Option 5)	
Power	Range	L	0.0 - 350.0 W (0.20 - 3500 W Option 5)	
		H	300 - 4000 W	
	Accuracy		±(5.0% of reading + 3 counts) for high range ±(5.0% of reading + 5 counts) for low range (±0.6% of reading + 5 counts Option 5)	
Power Factor	Range		0.000 - 1.000	
	Accuracy		W/VA, Calculated value	
GENERAL				
Inrush Current			4 times the current rating	
Enhanced Over Load Capacity			105% overcurrent can hold for 500 ms w/o protection	
Operation Key Feature			Up/Down Arrow Key	
Memory			3 Memories (M1, M2, M3), (7 Memories Option 4)	
PLC Remote Interface			Input: Test, Reset Recall Memories 1-3 (1-7 Option 4), Output: Fail, Test-in-Process	
Fan			Yes	
Front Output			Universal Receptacle	
Rear Output			Terminal Block	
Displays			4 LED Displays	
Rack Mount Kit			Standard	
Protection Circuits			Over Current, Over Voltage, Over Temperature	
Calibration			Front panel software	
Dimensions W x H x D – inches/mm			16.92 x 3.50 x 15.75 in	16.92 x 3.50 x 22.05 in
			430 x 89 x 400 mm	430 x 89 x 560 mm
Net Weight Lbs. (kg)			55 lbs (25 kg)	79.4 lbs (36 kg)

Specifications subject to change

Why We Use Counts

APT publishes some specifications using “counts” which allows us to provide a better indication of the tester’s capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range. For example, if the resolution for voltage is 1V then 2 counts = 2V.