47 Watts LCT43-E Series

Total Power: 47 Watts Input Voltage: 85-264 VAC

120-300 VDC

of Outputs: Triple

Electrical Specs



Special Features

- Totally enclosed
- Universal input
- Quick Installation
- Built-in EMI filter
- Low output ripple
- Overvoltage protection
- Overload protection

Environmental

Operating temperature: 0° to 50°C ambient; derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: designed to meet IEC 1000-4, -2, -3, -4, -5, -6, 8, 11 Level 3

Humidity: Operating; non-condensing

5% to 90%

Vibration: .41 G from 3 to 500 Hz

Spectral break points of .0065 G2/Hz at 10 Hz and 200 Hz and 5 db/octave roll off at each end, 2

hours per axis

Storage temperature: -40° to 85°C Temperature coefficient: ±.04% per °C

MTBF demonstrated: >300,000 hrs @ full load and

25°C ambient conditions

Input

Input range 85-264 VAC 120-300 VDC

Frequency 47-63 Hz

Inrush current <20 A peak @ 115 VAC;

<40 A peak @ 230 VAC, cold start @ 25°C

Input current 1 A max. (RMS) @ 115 VAC Efficiency 70% typical at full load

EMI filter FCC Class B conducted and radiated

CISPR 22 Class B conducted and

radiated

EN55022 Class B conducted and

radiated

Bellcore GR-1089-core Class B

conducted

Safety ground leakage

current

<3.5 mA @ 50/60 Hz, 264 VAC input

Output

Maximum power 47 W with 12 CFM forced air

Cross regulation ±2% on output 1;

±5% on outputs 2, 3

Hold-up time 10 ms @ 47 W load, 100 VAC input Overload protection Short circuit protection on all

outputs.

Case overload protected @ 110-

135% above peak rating

Overvoltage protection 5.50-6.75 VDC on main output

Safety

VDE 0805/EN60950 (IEC950) 21310-3336-0003 **UL** UL1950 E186249

UL UL1950 CSA CSA 22.2-234 -950-95-M90

CB Certificate and report 6593

CE Mark (LVD)

rev 8.11.04



AMERICAS

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Ordering Information

Model	Output	Minimum	Maximum Load with	Maximum Load with	Peak	Regulation2	Ripple
Number	Voltage	Load	Convection Cooling	12 CFM Forced Air	Load1		P/P (PARD)3
LCT43-E	+5 V	1.0 A	4 A	7 A	8 A	+4 / -2%	50 mV
	+12 V	0.1 A	1 A	1.2 A	1.5 A	±5%	120 mV
	-12 V	0 A	0.5 A	0.5 A	0.6 A	±5%	120 mV

- 1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
- 2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and $10~\mu F$ in parallel with a $0.1~\mu F$ capacitor at rated line voltage and load ranges.
- 4. Minimum Loads are required.

Pin Assignments

Connector	LCT43-E
SK1-1 SK1-2 SK1-3	AC Line Ground AC Neutral
SK2-1	-12 V
SK2-2	Com
SK2-3	+5 V
SK2-4	+5 V
SK2-5	Com
SK2-6	+12 V

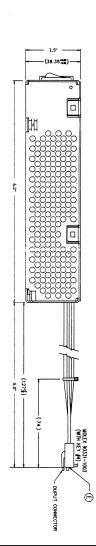
Mating Connectors

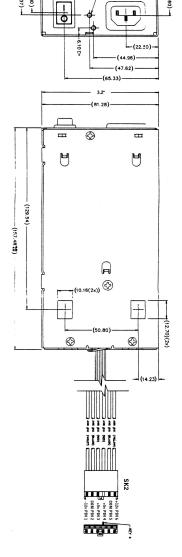
AC Input: IEC 320

DC Outputs: Molex 15-48-0406 (USA)

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is $\pm .02$ ".
- Specifications are for convection rating at factory settings at 115 VAC input,
 - 25°C unless otherwise stated.
- 4. Warranty: 1 year
- 5. Weight: 1.25 lb. / 0.57 kg





M3.5 x 0.6P THREAD HOLE (2X)

