

47 Watts LCT43-E Series

Total Power: 47 Watts
Input Voltage: 85-264 VAC
 120-300 VDC
of Outputs: Triple



Electrical Specs

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 |

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

Safety

| | | |
|------------|--------------------------|-----------------|
| VDE | 0805/EN60950 (IEC950) | 21310-3336-0003 |
| UL | UL1950 | E186249 |
| CSA | CSA 22.2-234 -950-95-M90 | |
| CB | Certificate and report | 6593 |
| CE | Mark (LVD) | |

AMERICAS

5810 Van Allen Way
 Carlsbad, CA 92008
 Telephone: 760-930-4600
 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX, UK
 Telephone: 44 (1384) 842-211
 Facsimile: 44(1384) 843-355

ASIA

Units 2111-2116, Level 21
 Tower1, Metroplaza
 223, Hing Fong Road
 Fwai Fong, New Territories
 Hong Kong
 Telephone: 852-2437-9662
 Facsimile: 852-2402-4426



Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load with Convection Cooling | Maximum Load with 12 CFM Forced Air | Peak Load ¹ | Regulation ² | Ripple P/P (PAR) ³ |
|--------------|------------------------|-----------------------|--------------------------------------|-------------------------------------|------------------------|-------------------------|-------------------------------|
| LCT43-E | +5 V +12 V -12 V | 1.0 A 0.1 A 0 A | 4 A 1 A 0.5 A | 7 A 1.2 A 0.5 A | 8 A 1.5 A 0.6 A | +4 / -2% ±5% ±5% | 50 mV 120 mV 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 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.

Pin Assignments

| Connector | LCT43-E |
|-----------|------------|
| SK1-1 | AC Line |
| SK1-2 | Ground |
| SK1-3 | 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 15-48-0106 (USA)

Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±.02".
3. 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

