

LCT43-E Series

47 Watts

Data Sheet

Total Power: 47 Watts
Input Voltage: 85 - 264 Vac
120 - 300 Vdc
of Outputs: Triple



SPECIAL FEATURES

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

SAFETY

- VDE 0805/EN60950
21310-3336-0003
- UL UL60950
E186249
- CSA CSA 22.2-234 -950-95-M90
- CB Certificate and report
6593
- CE Mark (LVD)

Electrical Specifications

| Input | |
|-------------------------------|---|
| Input range | 85 - 264 Vac (wide range) 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 | 1A 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 leadage 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 |

Environmental Specifications

| | |
|--------------------------------|--|
| Operating temperature | 0 ° to 50 °C ambient derate each output as 2.5% per degree from 50 °C to 70 °C |
| Storage temperature | -40 °C to +85 °C |
| Temperature co-efficient | ±.04% per °C |
| Electromagnetic susceptibility | Designed to meet IEC1000-4; -2, -3, -4, -5, -6, -8, -11 Level 3 |
| Humidity | Operating; non-condensing 5% to 90% .41G from 3 to 500 Hz; Spectral break points of .0065 G2/Hz |
| Vibration | At 10 Hz and 200 Hz and 5 db/octave roll off at each end, 2 hours per axis |
| MTBF demonstrated | >300,000 hours at full load and 25 °C ambient conditions |

Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load with Convection Cooling | Maximum Load with 12CFM Forced Air | Peak Load ¹ | Regulation ² | Ripple 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 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. This product is a Component Power Supply and is only for inclusion by professional installers within other equipment and must not be operated as a standalone product. EMC compliance to appropriate standards must be verified at the system level. This product is for sale to OEMs and System Integrators, including through Distribution Channels. It is not intended for sale to End Users.

Mechanical Drawings

Mating Connectors

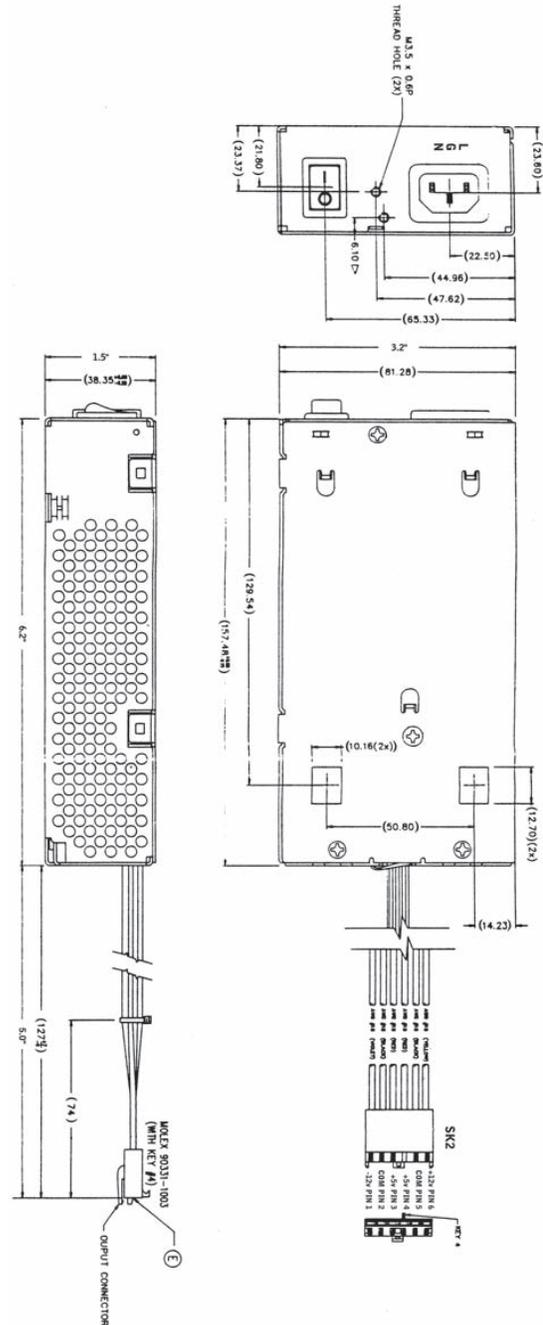
| | |
|------------|------------------------|
| AC Input | IEC 320 |
| DC Outputs | Molex 15-48-0406 (USA) |

Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is $\pm 0.02''$ (± 0.5 mm)
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 lbs/0.57 kg

Pin Assignments

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



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