

## 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

### 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 <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
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.

## Mechanical Drawings

## Mating Connectors

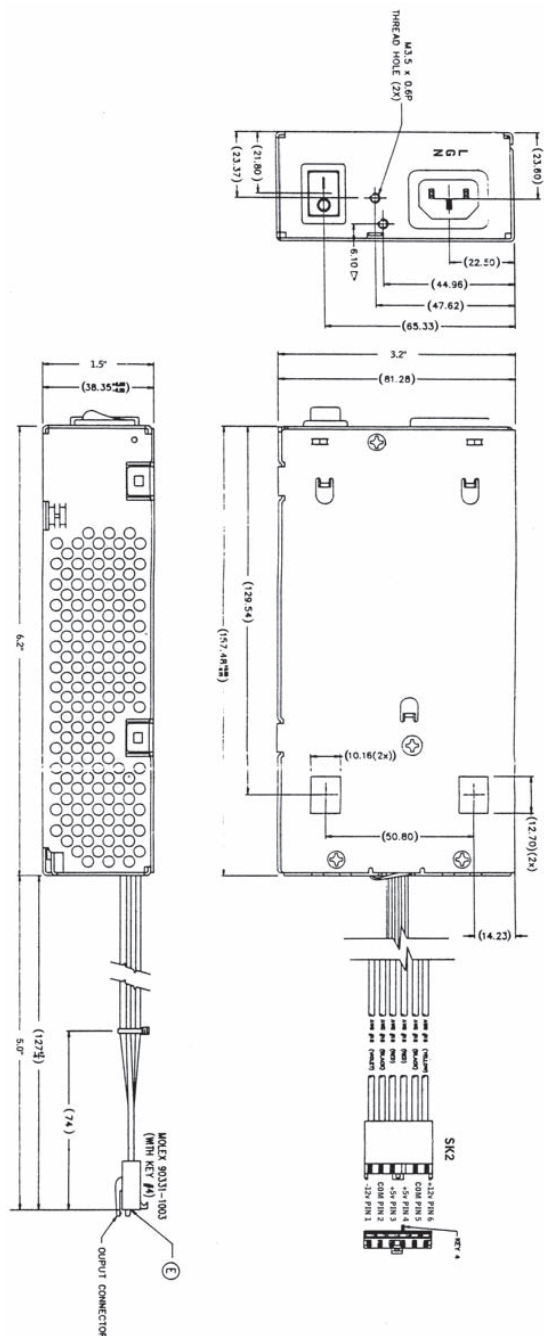
AC Input:	IEC 320
DC Outputs:	Molex 15-48-0406 (USA)

## Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is  $\pm 0.02$ " ( $\pm 0.5$  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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