

# LCT43-E

47 Watts

## LCT43-E

Total Power	47 Watts
Input Voltages	85 - 264 VAC 120 - 370 VDC
# of Outputs	Triple



### SPECIAL FEATURES

- Totally enclosed
- Universal input
- High efficiency
- 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 G<sup>2</sup>/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

### ELECTRICAL SPECIFICATIONS

#### Input

Input range ..... 85-264 VAC  
120-370 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

CSA CSA 22.2-234 -950-95-M90

CB Certificate and report 6593

CE Mark (LVD)

ASIA  
6F, CDW Building  
382-392 Castle Peak Road  
Tsuen Wan, N.T., Hong Kong  
Telephone: 852-2437-9662  
Facsimile: 852-2402-4426

EUROPE  
Astec House, Waterfront Business Park  
Merry Hill, Dudley  
West Midlands, DY5 1LX, UK  
Telephone: 01384-842211  
Facsimile: 01384-843355

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



LOW POWER

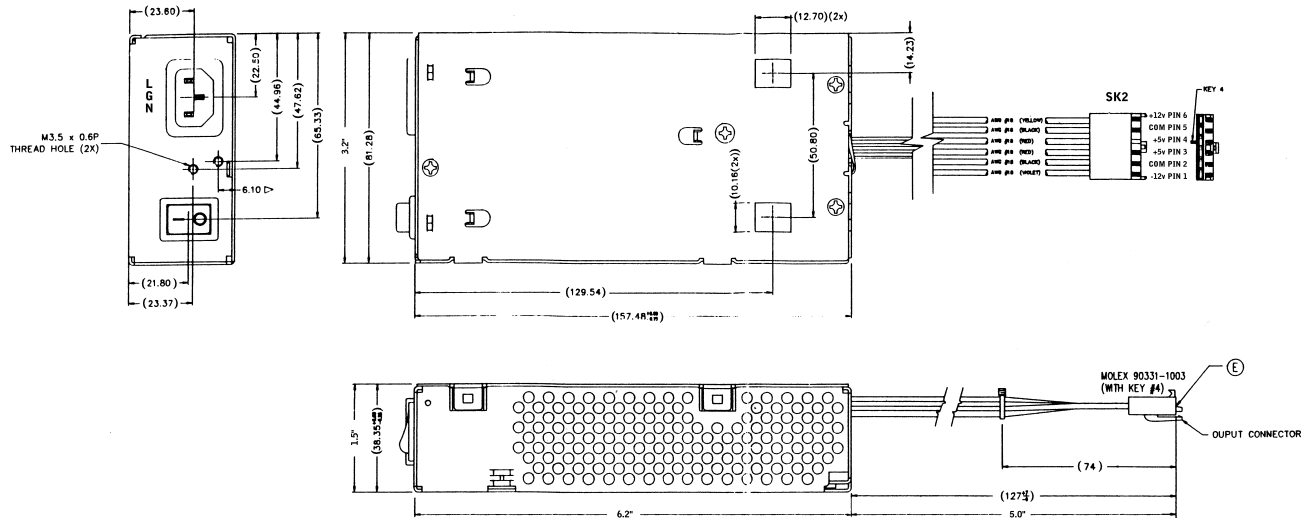
LCT43-E

## ORDERING INFORMATION

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 12 CFM 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	±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 in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.

## DRAWINGS



## 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

## PIN ASSIGNMENTS

Connector	LCT43-E
SK1-1	ACLine
SK1-2	Ground
SK1-3	ACNeutral
SK2-1	-12 V
SK2-2	Com
SK2-3	+5 V
SK2-4	+5 V
SK2-5	Com
SK2-6	+12 V