

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 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

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)	

Astec Standard Power Europe
Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
Telephone: +44 (0)1384 842211
Facsimile: +44 (0)1384 843355

Astec France S.A.R.L.
424 La Closerie, Mont D'est
93194 Noisy le Grand
France
Telephone: +33 (0)1 4305 8680
Facsimile: +33 (0)1 4304 6033

Astec Standard Power Germany
Robert-Heil-Str. 8
36251 Bad Hersfeld
Germany
Telephone: +49 (0)6621 50570
Facsimile: +49 (0)6621 505720

Astec Netherlands
Kerkenbos 10-125
Nijmegen
The Netherlands
Telephone: +31 (0)24 372 3210
Facsimile: +31 (0)24 372 3219



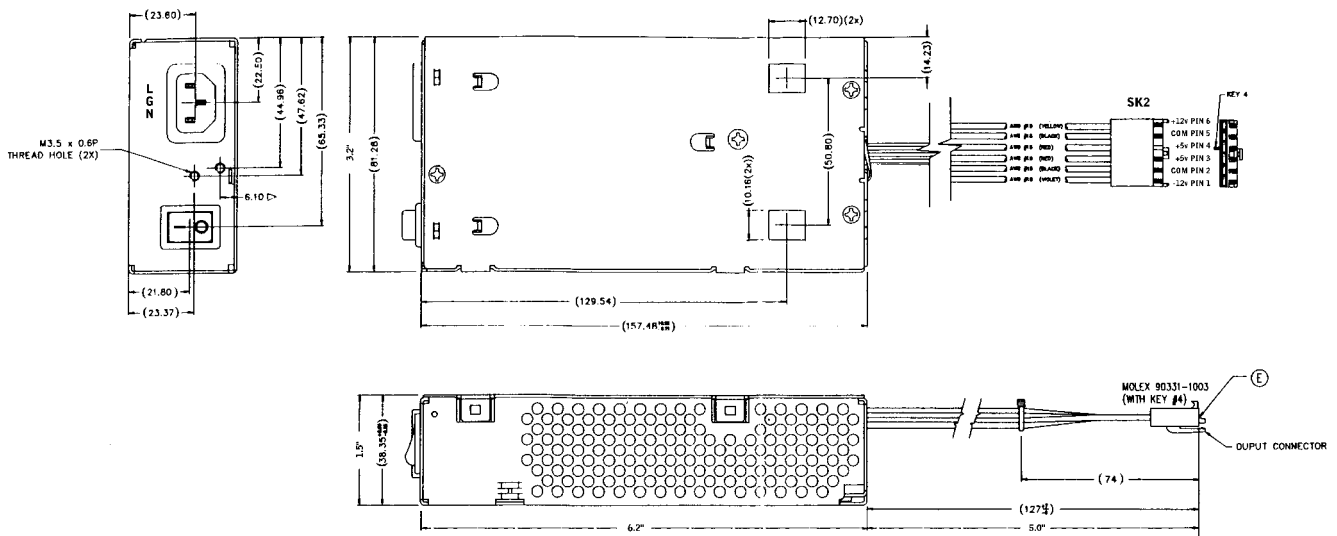
LOW POWER

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 (PARD) ³
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 for correct operation, unit will self protect if not connected.

DRAWINGS



LCT43-E

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

REV 10.5.99

