

Excellent Integrated System Limited

Stocking Distributor

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[Artesyn Embedded Technologies](#)
[LCT43-E](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



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

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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.

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Mechanical Drawings

Mating Connectors

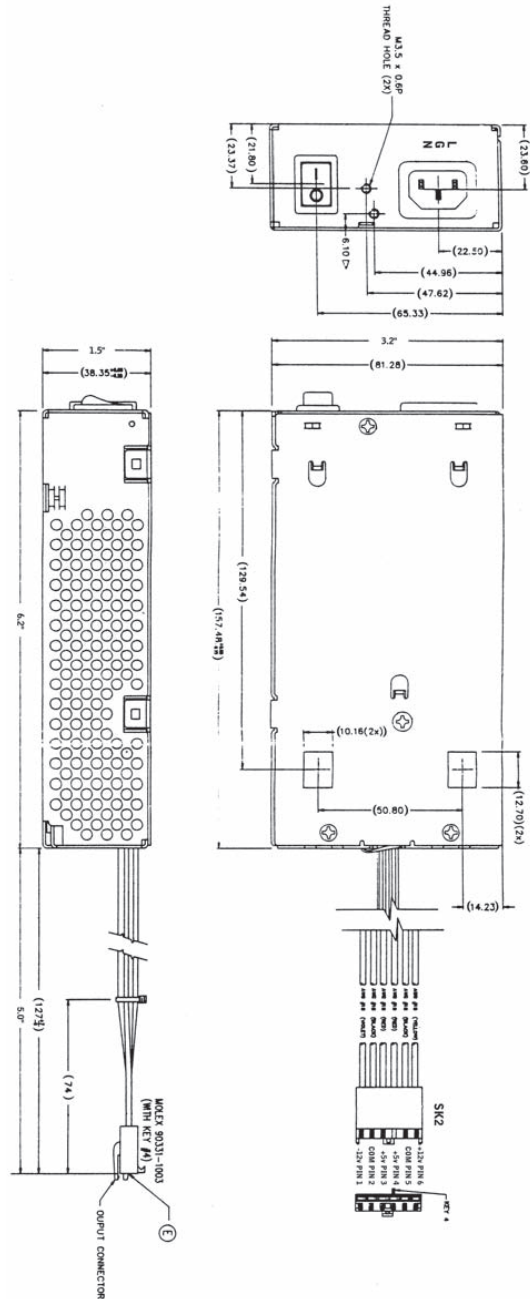
AC Input	IEC 320
DC Outputs	Molex 15-48-0406 (USA)

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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