

LCB50

50 Watt Single Output Power Supply

Data Sheet

Total Power: 50 W **# of Outputs:** Single **Outputs:** 3.3 - 48 V

SPECIAL FEATURES

- No-load power consumption 0.5 W
- Low cost
- 3.9" x 3.2" x 1.4"
- 10% output voltage adjust
- -25 °C to 70 °C with derating
- High efficiency: 90% @ 230 Vac
- Power ON with LED indicator
- Withstand 5G vibration test
- Two year warranty

COMPLIANCE

- EMI Class B
- EN61000 EN61204-3

SAFETY

UL, cUL 60950-1TUV 60950-1

CE





Electrical Specifications					
Input					
Input range	88 - 264 Vac 125 - 373 Vdc				
Frequency	47 - 63 Hz, Nominal 50/60				
Inrush current	40 A, cold start at 25 °C, 230 Vac				
Harmonics	EN61000-3-2: 2000 Class A, EN61000-3-3: 1995+A1:2001				
Input current	01.3 A / 115 Vac				
Hold up time	>32 ms / 230 Vac >10 ms / 115 Vac at full load				
Efficiency	90% typical at full Load / 230 Vac nominal				
Leakage current	< 2 mA at 264 Vac				
Isolation	Isolation: PRI-Chassis 1500 Vac PRI-SEC 3000 Vac SEC-Chassis 500 Vac				



Electrical Specifications						
Output						
Output rating	See ordering information	90 - 264 Vac				
Output tolerance	± 1% to 3%	90 - 264 Vac				
Total regulation range	± 0.5% to 2%	Combined line/load/transient when measured at output terminal				
Rated load	33 - 52.8 W	Derate linear to 50% from 50 °C to 70 °C				
Output noise (PARD)	100 - 200 mV p-p	Main output Measured with a 0.1 μF Ceramic and 10 μF Tantalum Capacitor on any output, 20 MHz				
Output voltage overshoot		No overshoot/undershoot outside the regulation band during on or off cycle				
Short circuit protection	Protected, no damage to occur	Bounce mode				
Output isolation		Standard per safety requirements				
Overload protection (OCP)	>110% rated output power	Main output				
Overvoltage protection (OVP)	115% to 150%	Main output				
Output voltage adjust	± 10%	Main output				

Environmental Specifications				
Operating temperature -25 °C to +70 °C, linear derating to 50% from 50 °C to 70 °C				
Storage temperature	-40 °C to +85 °C			
Humidity	20 to 90%, non-condensing			
Vibration	10 - 500 Hz, 5G 10 min/1 cycle, period for 60 min each along X, Y, Z axes			

Ordering Information								
Model Number	Output Voltage	Output Current	Vo Adjust	Output Power	Efficiency			
LCB50D	3.3 V	10 A	± 10%	33 W	78%			
LCB50E	5 V	10 A	± 10%	50 W	83%			
LCB50L	12 V	4.2 A	± 10%	50.4 W	88%			
LCB50N	15 V	3.4 A	± 10%	51 W	89%			
LCB50Q	24 V	2.2 A	± 10%	52.8 W	90%			
LCB50W	48 V	1.1 A	± 10%	52.8 W	90%			

Miscellaneous Specifications

BURN-IN

100% Burn-in at 45 °C, at full load. Duration of burn-in determined by Quality Assurance Procedures.

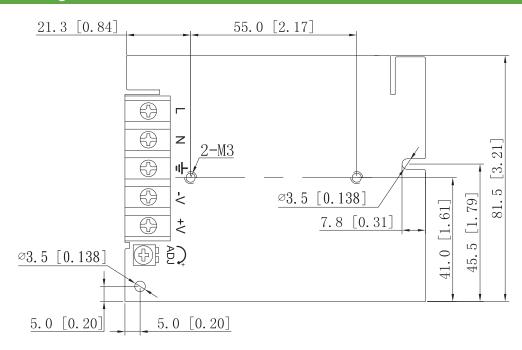
MTBF

The power supply has a minimum MTBF of 420K hours according to MIL-HDBK-217F.

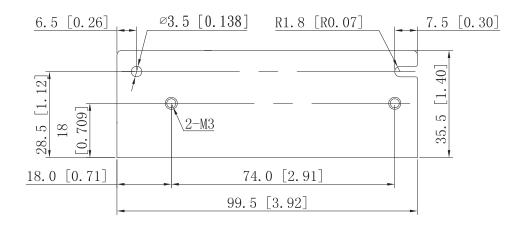
WARRANTY

Artesyn Embedded Power shall warrant the power supply to be free of defects in materials and workmanship for a minimum period of two years from the date of shipment, when operated within specifications. The warranty shall be fully transferable to the end owner of the equipment powered by the supply.

Mechanical Drawings



hit hit



WORLDWIDE OFFICES

Americas

2900 South Diablo Way Suite B100 Tempe, AZ 85282, USA +1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry House 4 Harbour Buildings, Waterfront West Brierley Hill, West Midlands DY5 1LN, UK +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong +852 2176 3333



www.artesyn.com

For more information: www.artesyn.com
For support: productsupport.ep@artesyn.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Switching Power Supplies category:

Click to view products by Artesyn Embedded Technologies manufacturer:

Other Similar products are found below:

70841011 73-551-0005 73-551-0048 PS3E-B12F PS3E-E12F AAD600S-4-OP R22095 KD0204 9021 LDIN100150 LPM000-BBAR-01 LPX17S-C EVS57-10R6/R FP80 FRV7000G 22929 PS3E-F12F CQM1IA121 40370121900 VI-PU22-EXX 40370121910 LDIN5075 LPM615-CHAS LPX140-C 09-160CFG 70841025 VPX3000-CBL-DC VI-LUL-IU LPM000-BBAR-05 LPM000-BBAR-08 LPM124-OUTA1-48 LPM000-BBAR-07 LPM109-OUTA1-10 LPM616-CHAS 08-30466-1055G 08-30466-2175G 08-30466-2125G DMB-EWG TVQF-1219-18S 6504-226-2101 CQM1IPS01 SP-300-5 CQM1-IPS02 VI-MUL-ES 22829 08-30466-0065G VI-RU031-EWWX 08-30466-0028G EP3000AC48INZ VP-C2104853