

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LCB150

150 Watt Single Output Power Supply



SPECIAL FEATURES

- No-load power consumption 1.5 W
- Low cost
- 3.9" x 7" x 1.5"

Data Sheet

- 10% output voltage adjust
- -25 °C to 70 °C with derating
- High efficiency: 90% @ 230 Vac
- Power ON with LED indicator
- Withstand 2G vibration test
- Two year warranty

COMPLIANCE

- EMI Class B
- EN61000, EN61204-3

SAFETY

UL, cUL 60950-1 TUV 60950-1

CE





Electrical Specifications				
Input				
Input range	88 - 132 Vac, 176 - 264 Vac (by switch) 248 - 373 Vdc			
Frequency	47 - 63 Hz, Nominal 50/60			
Inrush current	50 A, cold start at 25 °C, 230 Vac			
Harmonics	EN61000-3-2: 2000 Class A, EN61000-3-3: 1995+A1:2001			
Input current	3 A / 115 Vac			
Hold up time	>25 ms			
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 2%	90 - 264 Vac				
Total regulation range	± 0.5% to 1%	Combined line/load/transient when measured at output terminal				
Rated load	90 - 158.4 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)	>105% 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			
LCB150E	5 V	18 A	± 10%	90 W	83%			
LCB150L	12 V	12.5 A	± 10%	150 W	88%			
LCB150N	15 V	10 A	± 10%	150 W	89%			
LCB150Q	24 V	6.5 A	± 10%	156 W	90%			
LCB150W	48 V	3.3 A	± 10%	158.4 W	90%			

Miscellaneous Specifications

BURN-IN

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

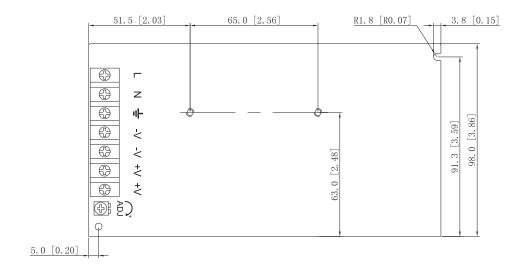
MTBF

The power supply has a minimum MTBF of 244K hours according to MIL-HDBK-217F.

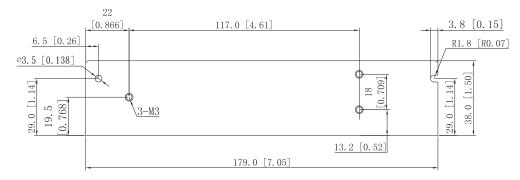
WARRANTY

Artesyn Embedded Technologies 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



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