

# LCB35

## 35 Watt Single Output Power Supply





### **Data Sheet**

Total Power: 35 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 60950-1 TUV 60950-1

CE

Electrical Specifications					
Input					
Input range	88 - 264 Vac 125 - 373 Vdc				
Frequency	47 - 63 Hz, Nominal 50/60				
Inrush current	35 A, cold start at 25 °C, 230 Vac				
Harmonics	EN61000-3-2: 2000 Class A, EN61000-3-3: 1995+A1:2001				
Input current	0.8 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	23 - 38 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		
LCB35D	3.3 V	7 A	± 10%	23.1 W	78%		
LCB35E	5 V	7 A	± 10%	35 W	83%		
LCB35L	12 V	3 A	± 10%	36 W	89%		
LCB35N	15 V	2.4 A	± 10%	36 W	89%		
LCB35Q	24 V	1.5 A	± 10%	36 W	88%		
LCB35W	48 V	0.8 A	± 10%	38.4 W	90%		

#### **Miscellaneous Specifications**

#### **BURN-IN**

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

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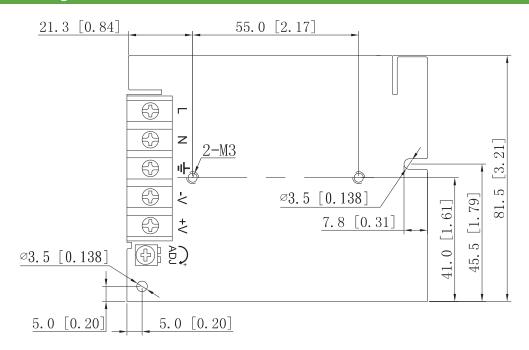
#### **MTBF**

The power supply has a minimum MTBF of 460K hours according to MIL-HDBK-217F.

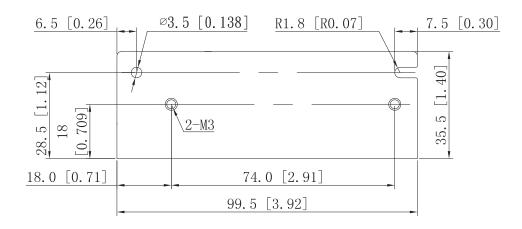
#### **WARRANTY**

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**



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#### **WORLDWIDE OFFICES**

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