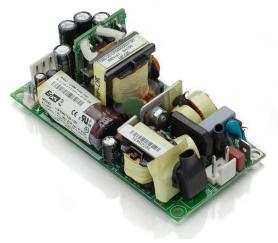
150 Watt Industrial (WLT)



Features

- 4 x 2 x 1.3 inches form factor
- 150 W with forced-air cooling
- Class 1 & Class 2 options
- 12 V @ 0.5 A fan voltage auxiliary output
- High efficiency > 86%
- Low conducted and radiated noise
- Light weight
- Cover kit accessory available

Electrical Specifications					
Input Voltage	90-264 VAC/120-390 VDC, Universal				
Input Frequency	47-63 Hz				
Input Current	120 VAC: 1.7 A max.	230 VAC: 0.85 A max.			
No Load Power	1.2 W				
Inrush Current	120 VAC: 35 A max.	230 VAC: 65 A max.			
Leakage Current	120 VAC: < 150 μA	230 VAC: < 300 μA			
Efficiency	120 VAC: 84% typical	230 VAC: 86% typical			
Hold-up Time	120 VAC: 6 ms	230 VAC: 10 ms			
Power Factor	120 VAC: 0.99	230 VAC: 0.95			
Output Power	150 W				
Peak Power	170 W for 0.2 s				
Line Regulation	+/-0.5%				
Load Regulation	+/-2.0%				
Transient Response	< 10%, 50% to 100% load change	, 50 Hz, 50% duty cycle, 0.1 A/μs,			
	recovery time < 5 ms				
Rise Time	< 100 ms				
Set Point Accuracy (Main Output)	+/-1%				
Output Adjustability	+/-3.0%				
Over Current Protection	110% typical above rating				
Over Voltage Protection	110 to 150%				
Short Circuit Protection	Short term, autorecovery				
Switching Frequency	PFC converter: Variable, 35–250 kl	PFC converter: Variable, 35–250 kHz; 90 kHz typical			
	Resonant converter: Variable, 35-250 kHz; 90 kHz typical				
Operating Temperature	-20 to +70°C, refer derating curve, -20 to 0°C, start-up is guaranteed				
Storage Temperature	-40 to +70°C				
Relative Humidity	95% Rh, noncondensing				
Altitude	Operating: 10,000 ft.; Nonoperating: 40,000 ft.				
MTBF	2.4m Hours, Telcordia -SR332-issue 3				
Isolation Voltage	Min. 4242 VDC between input to output				
Cooling	Convection: 80 W; 300 LFM: 100 W (5 V model)				
	Convection: 100 W; 300 LFM: 150	W (other model)			

Model Number	Description	Voltage	Max. Load ¹ (Convection)	Max. Load ¹ (300 LFM)	Min. Load	Ripple ²
LFWLT150-1000	Class 1 with Screw Terminal			20.0 A		
LFWLT150-1000-2	Class 2 with Screw Terminal	5 V	16.0 A		0.0 A	1%
LFWLT150-1300	Class 1 with JST Connector		10.071	16.0 A	0.0 A	1 70
LFWLT150-1300-2	Class 2 with JST Connector					
LFWLT150-1001	Class 1 with Screw Terminal					
LFWLT150-1001-2	Class 2 with Screw Terminal	12 V	8.33 A	12.5 A	0.0 A	1%
LFWLT150-1301	Class 1 with JST Connector	1 Z V				
LFWLT150-1301-2	Class 2 with JST Connector					
LFWLT150-1002	Class 1 with Screw Terminal					
LFWLT150-1002-2	Class 2 with Screw Terminal	15 V	6.67 A	10.0 A	0.0 A	1%
LFWLT150-1302	Class 1 with JST Connector	13 V				
LFWLT150-1302-2	Class 2 with JST Connector					
LFWLT150-1003	Class 1 with Screw Terminal					
LFWLT150-1003-2	Class 2 with Screw Terminal	24 V	4.17 A	6.25 A	0.0 A	1%
LFWLT150-1303	Class 1 with JST Connector	24 V				
LFWLT150-1303-2	Class 2 with JST Connector					
LFWLT150-1004	Class 1 with Screw Terminal					
LFWLT150-1004-2	Class 2 with Screw Terminal	40.17	2.08 A	3.13 A	0.0 A	1%
LFWLT150-1304	Class 1 with JST Connector	48 V				
LFWLT150-1304-2	Class 2 with JST Connector					
LFWLT100-CK metal cover kit accessory						

Notes

Downloaded from Arrow.com.

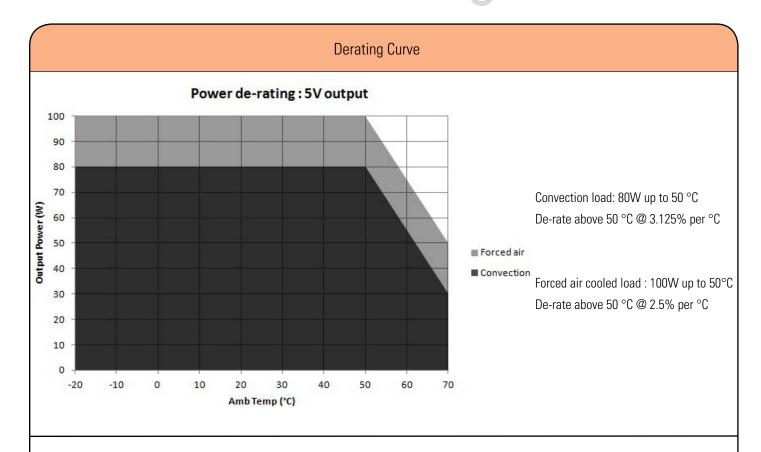
- 1. Combined output power from V1 and VFAN should not exceed the total output power rating.
- 2. Ripple is 2% up to 20% load and < 1% above 20% load. Ripple is peak to peak with 20 MHz bandwidth and 10 μF (Electrolytic capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
- 3. Fan output voltage tolerance is $\pm -20\%$.
- 4. Peak current for fan output is 1 A.
- 5. Class 1 products have an Earthing tab. Class 2 version available. Add "-2" suffix at the end of the Model Number to Order. Enquire with EOS Sales Rep before Order.
- 6. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
- 7. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 8. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.

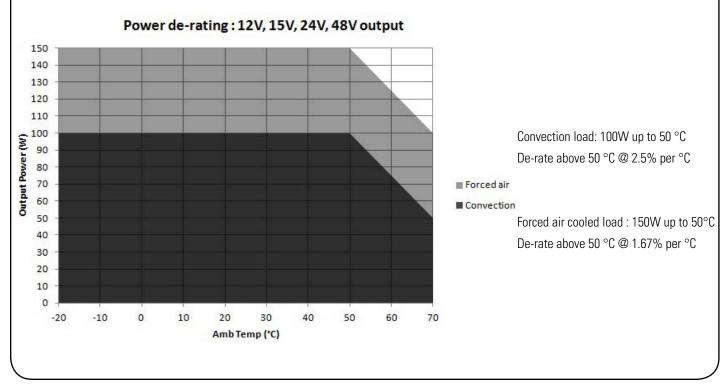


	Connecto	rs
J1	Pin 1	AC LINE
	Pin 2	AC NEUTRAL
Spade Connector		EARTH
(Class 1 product only)		
J2	Pin 1, 2	V1
	Pin 3, 4	RTN
J3	Pin 1	VFAN (+12 V/0.5 A)
	Pin 2	RTN

Mechanical Specifications					
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent; Mating: 09-50-3031; Pins: 08-50-0106				
EARTH	Molex: 19705–4301 or equivalent				
	Mating: 190030001				
DC Output Connector (J2)	Option 1: Tyco: 1776112-4 or equivalent				
	Mating: 13 AWG wire				
	Option 2: JST: B4P-VH-B (LF) (SN) or B4P-VH (LF) (SN) or equivalent				
	Mating: VHR-4M; Pins: SVH-41T-P1.1				
Fan Connector (J3)	Tyco: 640456–2 or equivalent				
	Mating: 640440-2	Mating: 640440-2			
Dimensions	4.0 x 2.0 x 1.324 inches (101.6 x 50.8 x 33.63 mm)				
Weight	150 g				
EMC					
Parameter	Conditions/Description	Criteria			
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass			
Radiated Emissions	EN 55032 B	Pass			
Input Current Harmonics	EN 61000-3-2	Class D			
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass			
ESD Immunity	EN 61000-4-2	Level 3, Criterion A			
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A			
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, Criterion A			
Surge Immunity	EN 61000-4-5	Level 3, Criterion A			
Conducted Immunity	EN 61000-4-6	Level 3, Criterion A			
Magnetic Field Immunity	EN 61000-4-8	Level 3, Criterion A			
Voltage dips, interruptions	EN 61000-4-11	Criterion A & B			
Safety					
CE Mark	Complies with LVD Directive				
Approval Agency	Nemko, UL, C-UL, IEC				
Safety Standard(s)	UL/CSA C22.2 No./IEC/EN60950-1 (2nd Edition)				
Safety File Number(s)	Nemko: P15219380, CB: N084942				
	UL: E150565				

Downloaded from Arrow.com. 39-DE60-45450-002 / B4

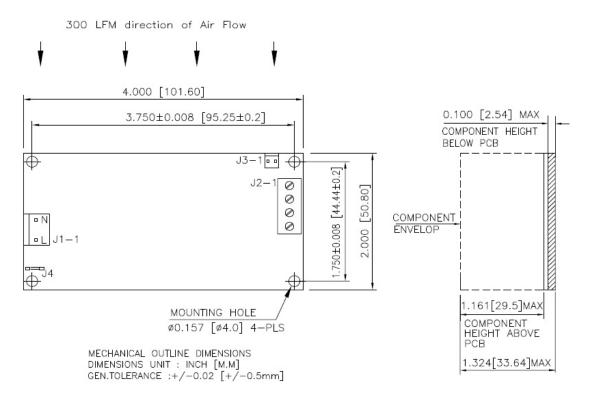






Downloaded from Arrow.com.

Mechanical Drawing



Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

- 1. Stand off, used to mount PCB has OD of 5.4 mm max.
- 2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
- 3. Washer, if used, to have dia of 6.5 mm max.