150 Watt Industrial (WLT)



Features

- 4 x 2 x 1.3 inches from factor
- 150 W with forced-air cooling
- Class I Power supply
- 12 V @ 0.5 A fan voltage auxiliary output
- High efficiency > 86 %
- Low conducted and radiated noise
- Light weight
- Now IEC/EN/UL62368-1 Compliant^{New}
- Approved with metal enclosures/accessories
- Cover kit accessory available

	Electrical Specifications			
nput Voltage	90-264 VAC/120-390 VDC, Unive	rsal		
nput Frequency	47-63 Hz			
nput Current	120 VAC: 1.7 A max.	230 VAC: 0.85 A max.		
No Load Power	1.2 W			
nrush Current	120 VAC: 35 A max.	230 VAC: 65 A max.		
eakage 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		
Dutput Power	150 W			
Peak Power	170 W for 0.2 s			
ine Regulation	+/-0.5%			
Load Regulation	+/-2.0%			
Transient Response	< 10%, 50% to 100% load change	< 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	110% typical above rating		
Over Voltage Protection	110 to 150%			
Short Circuit Protection	Short term, autorecovery			
Switching Frequency	PFC converter: Variable, 35–250 k	PFC converter: Variable, 35-250 kHz; 90 kHz typical		
	Resonant converter: Variable, 35-	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			
solation Voltage	Min. 4242 VDC between input to output			
Cooling	Convection: 80 W; 300 LFM: 100 W (5 V model)			
100	Convection: 100 M/: 200 LEM: 150	Convection: 100 W; 300 LFM: 150 W (other model)		

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Model Number	Description	Voltage	Max. Load¹ I	Max. Load¹	Min. Load	Ripple ²
			(Convection)	(300 LFM)		
LFWLT150-1000	Class I with Screw Terminal	5 V	16.0 A	20.0 A	0.0 A	1%
LFWLT150-1300	Class I with JST Connector	5 V	16.0 A	16.0 A	0.0 A	1%
LFWLT150-1001	Class I with Screw Terminal	12 V	8.33 A	12.5 A	0.0 A	1%
LFWLT150-1301	Class I with JST Connector	12 V 0.55 A		12.5 A	0.0 A	1/0
LFWLT150-1002	Class I with Screw Terminal	15 V	6.67 A	10.0 A	0.0 A	1%
LFWLT150-1302	Class I with JST Connector	12 4	0.07 A	10.0 A	0.0 A	1/0
LFWLT150-1003	Class I with Screw Terminal	241/	4.17 A	6.25 A	0.0 A	1%
LFWLT150-1303	Class I with JST Connector	24 V				
LFWLT150-1004	Class I with Screw Terminal					
LFWLT150-1304	Class I with JST Connector	48 V	2.08 A	3.13 A	0.0 A	1%
LFWLT100-CK metal cover kit accessory						

For Power supply unit with Base plate (metal accessory option) add "-B" suffix at the end of model number For Power supply unit with L bracket (metal accessory option) add "-L" suffix at the end of model number For Power supply unit with U channel (metal accessory option) add "-U" suffix at the end of model number For Power supply unit with U channel (metal accessory option) add "-CK" suffix at the end of model number



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Notes

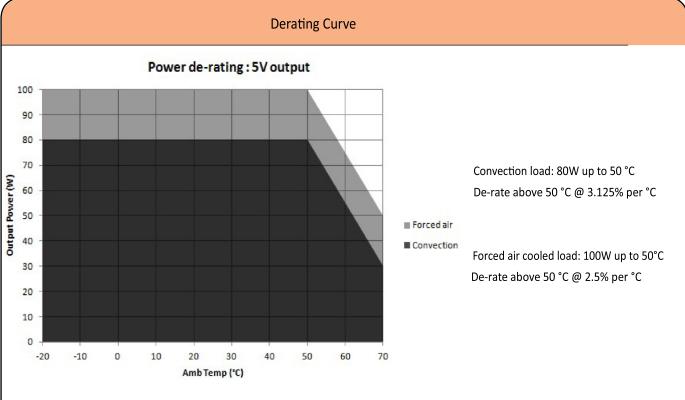
- 1. Combined output power from V1 and VFAN should not exceed the total output power rating.
- 2. Ripple is 2% up to 20% load and < 1% above 20% load. Ripple is peak to peak with 20 MHz bandwidth and $10~\mu F$ (Electrolytic capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
- 3. Fan output voltage tolerance is +/-20%.
- 4. Peak current for fan output is 1 A.
- 5. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
- 6. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 7. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.

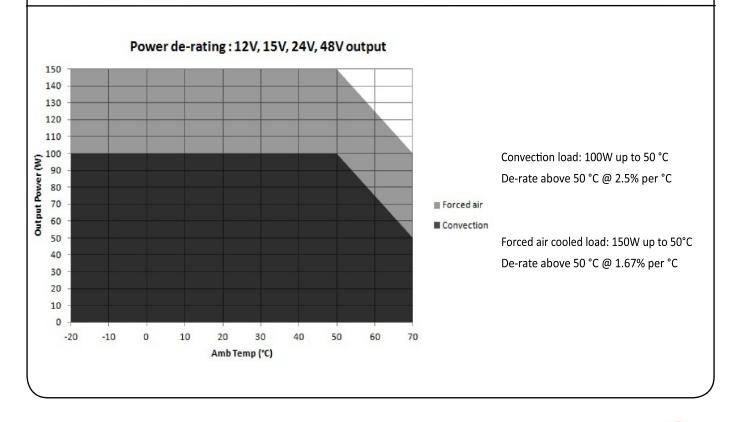
	Connect	ors
J1	Pin 1	AC LINE
	Pin 2	AC NEUTRAL
Spade Connector		EARTH
(Class I product only)		
J2	Pin 1, 2	V1
	Pin 3, 4	RTN
J3	Pin 1	VFAN (+12 V/0.5 A)
	Pin 2	RTN

	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				
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)	EN/IEC/UL 62368-1 (Ed.3)				
Safety File Number(s)	Class I UL: Certificate Number: E515384, Nemko: Certificate No: P20225090,				
	CB Test Certificate No: NO111516				

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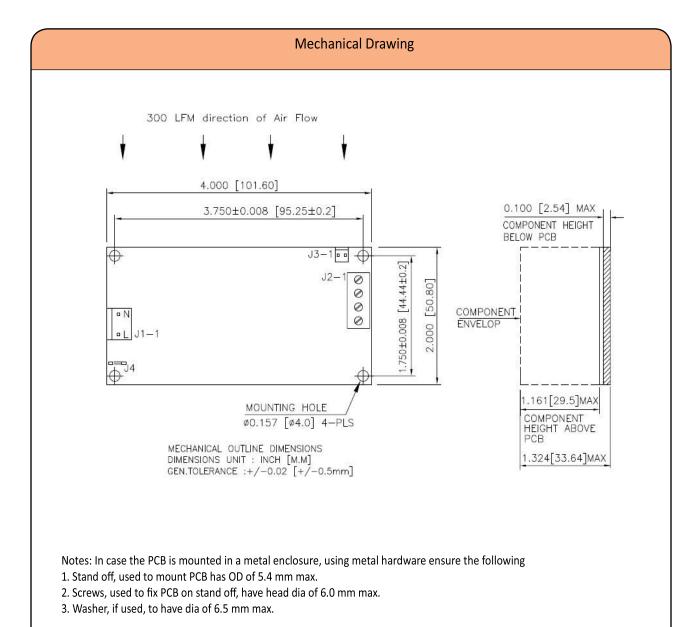








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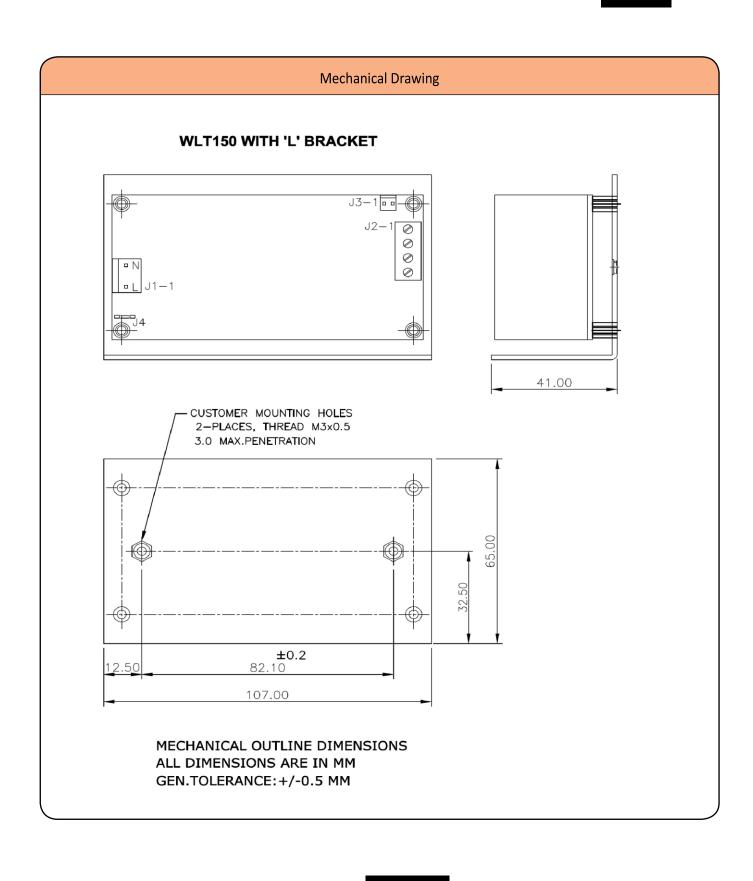


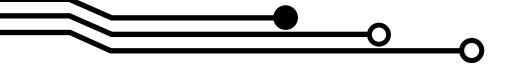
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Mechanical Drawing **WLT150 WITH 'U' CHANNEL** J2 - 1 \oslash 41.00 CUSTOMER MOUNTING HOLES 2-PLACES, THREAD M3x0.5 3.0 MAX.PENETRATION 65.00 ±0.2 82.10 107.00

MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN MM GEN.TOLERANCE:+/-0.5 MM





Mechanical Drawing WLT150 WITH BASE PLATE J3-1 J2-1 0 0 0 - N \oslash □L J1-1 40.00 CUSTOMER MOUNTING HOLES 2-PLACES, THREAD M3x0.5 3.0 MAX.PENETRATION 28.00 **±**0.2 82.10 12.50 107.00 MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN MM GEN.TOLERANCE: +/-0.5 MM

