## 40 Watt Industrial (WLT)



## Features

- 40 W convection-cooled rating
- Small 4 x 2 x 1.2 inches form factor
- High efficiency > 85%
- Single to triple outputs
- Low conducted and radiated noise
- No Load Power < 0.3 W
- Class I & Class II options
- Cover kit accessory available
- Now IEC/ EN/UL62368-1 compliant
- Approved with metal enclosures/accessories

	Electrical Specifications		
AC Input	90–264 V, Universal		
Input Frequency <sup>4</sup>	47–400 Hz		
Input Current	120 VAC: 0.85 A max.	230 VAC: 0.45 A max.	
No Load Power	< 0.3 W for single output models		
	< 0.5 W for multi output models		
Inrush Current	120 VAC: 30 A max.	230 VAC: 60 A max.	
Leakage Current	120 VAC: < 500 μA	230 VAC: < 1000 μA	
Efficiency <sup>1</sup>	120 VAC: 85% typical	230 VAC: 85% typical	
Hold-up Time	>10 ms @ 120 VAC typical		
Output Power	40 W		
Line Regulation	+/-0.3%		
Load Regulation	V1: +/-0.5%; V2 & V3: +/-5%	V1: +/-0.5%; V2 & V3: +/-5%	
Transient Response	< 10%, 50% to 100% load change	< 10%, 50% to 100% load change, 50/60 Hz, 50% duty cycle, 0.1 A/µs,	
	recovery time < 5 ms		
Rise Time	< 100 ms	< 100 ms	
Set Point Tolerance	V1: +/-3%; V2 & V3: +/-5%	V1: +/-3%; V2 & V3: +/-5%	
Output Adjustability	V1: +/-10%	V1: +/-10%	
Over Current Protection	130% typical above rating	130% typical above rating	
Over Voltage Protection	130% typical for V1 only	130% typical for V1 only	
Short Circuit Protection	Short term, autorecovery	Short term, autorecovery	
Switching Frequency	Approximately 67 kHz	Approximately 67 kHz	
Operating Temperature	-20 to 70°C, refer derating curve; -20 to 0°C, start-up is guaranteed		
Storage Temperature	-40 to +70°C	-40 to +70°C	
Relative Humidity	95% Rh, noncondensing	95% Rh, noncondensing	
Altitude	Operating: 10,000 ft.; Nonoperatin	Operating: 10,000 ft.; Nonoperating: 40,000 ft.	
MTBF	1.87m Hours, Telcordia -SR332-iss	1.87m Hours, Telcordia -SR332-issue 3	
Isolation Voltage	Input to Output 4000 VAC/VDC	Input to Output 4000 VAC/VDC	
Cooling	Convection		

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Model Numbe	,	Maximum	Voltage	Max. Load <sup>2</sup>	Min. Load⁵	Ripple <sup>3</sup>
	its Installation Type	Wattage				
LFWLT40-1000-C						
LFWLT40-1000	In Open Frame					
LFWLT40-1000-L		40W	V1=5 V	8.0 A	0.00 A	1.00%
LFWLT40-1000-B						
LFWLT40-1000-U						
LFWLT40-1001-C	K In CK cover Kit					
LFWLT40-1001	In Open Frame					
LFWLT40-1001-L	With L Bracket	40W	V1=12 V	3.5 A	0.00 A	1%
LFWLT40-1001-B	With Base Plate					
LFWLT40-1001-U	With U channel					
LFWLT40-1002-C	K In CK cover Kit					
LFWLT40-1002	In Open Frame					
LFWLT40-1002-L	With L Bracket	40W	V1=15 V	2.7 A	0.00 A	1.00%
LFWLT40-1002-B	With Base Plate					
LFWLT40-1002-U	With U channel					
LFWLT40-1003-C	K In CK cover Kit					
LFWLT40-1003	In Open Frame					
LFWLT40-1003-L	With L Bracket	40W	V1=24 V	1.7 V	0.00 A	1%
LFWLT40-1003-B	With Base Plate					
LFWLT40-1003-U	With U channel					
LFWLT40-1004-C	K In CK cover Kit					
LFWLT40-1004	In Open Frame					
LFWLT40-1004-L	With L Bracket	40W	V1=48 V	0.83 V	0.00 A	1%
LFWLT40-1004-B	With Base Plate			0.00 1	0.0071	
LFWLT40-1004-U	With U channel					
LFWLT40-3000-C	K In CK cover Kit					
LFWLT40-3000	In Open Frame		V1=5.2 V,	V1=6.0 A,	V1=0.5 A,	
LFWLT40-3000-L	•	40W	V2=12.5 V,	V1=0.07X, V2=2.0 A,	V2=0.1 A,	V1=1.5 %,
LFWLT40-3000-B	With Base Plate	1011	V3=-12.8 V	V2=2.0 A, V3=0.5 A	V2=0.1 A, V3=0.0 A	V2 & V3=1 %
LFWLT40-3000-U			10 12.01	V0-0.0 A	V3-0.0 A	
LFWLT40-3001-C						
LFWLT40-3001	In Open Frame		V1=5.2 V,	V1=6.0 A,	V1=0.5 A,	
LFWLT40-3001-L	•	40W	V2=24 V,	V1=0.0 A, V2=1.0 A,	V1=0.0 A, V2=0.1 A,	V1=1.5 %,
LFWLT40-3001-B	With Base Plate		V3=-12.8 V	V2=1.0 A, V3=0.5 A	V2=0.1 A, V3=0.0 A	V2 & V3=1 %
LFWLT40-3001-U			VO- 12.0 V	V3-0.3 A	VJ-0.0 A	
LFWLT40-3002-C						
LFWLT40-3002	In Open Frame		V1=5.2 V,	V1=6.0 A,	V1=0.5 A,	
LFWLT40-3002-L	·	40W	V1=3.2 V, V2=15 V,	V1=0.0 A, V2=1.5 A,	V1=0.5 A, V2=0.1 A,	V1=1.5 %,
LFWLT40-3002-B		1011	V2=15 V, V3=-15 V	V2=1.5 A, V3=0.5A,	V2=0.1 A, V3=0.0 A	V2 & V3=1 %
LFWLT40-3002-U			VO- 10 V	v3=0.3A,	v3=0.0 A	
LFWLT40-3003-C						
LFWLT40-3003	In Open Frame		V1=3.3 V,			
LFWLT40-3003-L	·	40W		V1=6.0 A,	V1=1.0 A,	V1 & V2=1.5 %
LFWLT40-3003-B		4077	V2=5 V, V2= 12 8 V	V2=3.0 A,	V2=0.1 A,	V1 & V2=1.3 %
LFWLT40-3003-U			V3=-12.8 V	V3=0.5A,	V3=0.0 A	v0-1 /0
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Innovations in Power

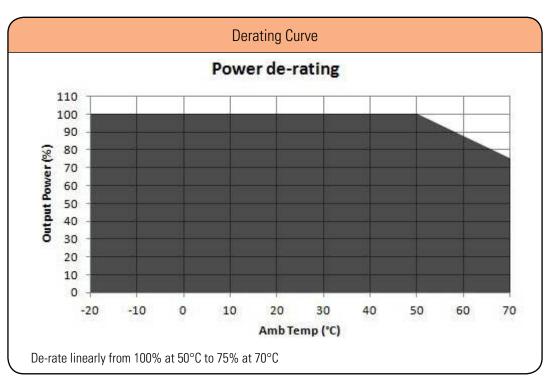
	Connec	tors	
J1	Pin 1	AC LINE	
	Pin 2	AC NEUTRAL	
Spade Connector		EARTH	
J2	Pin 1	V1	
	Pin 2	V1	
	Pin 3	RTN	
	Pin 4	RTN	
	Pin 5	V3	
	Pin 6	V2	
J3	Pin 1	+V1 SENSE	
	Pin 2	-V1 SENSE	

## Notes

- 1. For WLT40–3003 efficiency is 75% typical.
- 2. Maximum current per output channel. Do not exceed total output power rating.
- 3. 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.
- 4. Safety approved 47-63 Hz.
- 5. Min Load specified to meet cross regulation.
- 6. Class II version available. Add "-2" suffix at the end of the Model Number to Order. Enquire with EOS Sales Rep before Order.
- 7. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
- 8. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 9. Please refer mechnical outline drawing for height of component above and below PCB for 1xxx & 3xxx.

Mechanical Specifications		
AC Input Connector (J1)	Molex: 26–60–4030 or equivalent	
	Mating: 09-50-3031; Pins: 08-50-0106	
EARTH	Molex: 19705-4301	
	Mating: 190030001	
DC Output Connector (J2)	Tyco: 640445–6 or equivalent	
	Mating: 647402-6; Pins: 3-647409-1	
Signal Connector (J3)	Molex: 22–23–2021 or equivalent	
	Mating: 22-01-2021	
Dimensions	4.0 x 2.0 x 1.2 inches	
	(101.6 x 50.8 x 30.48 mm)	
Weight	150 g	

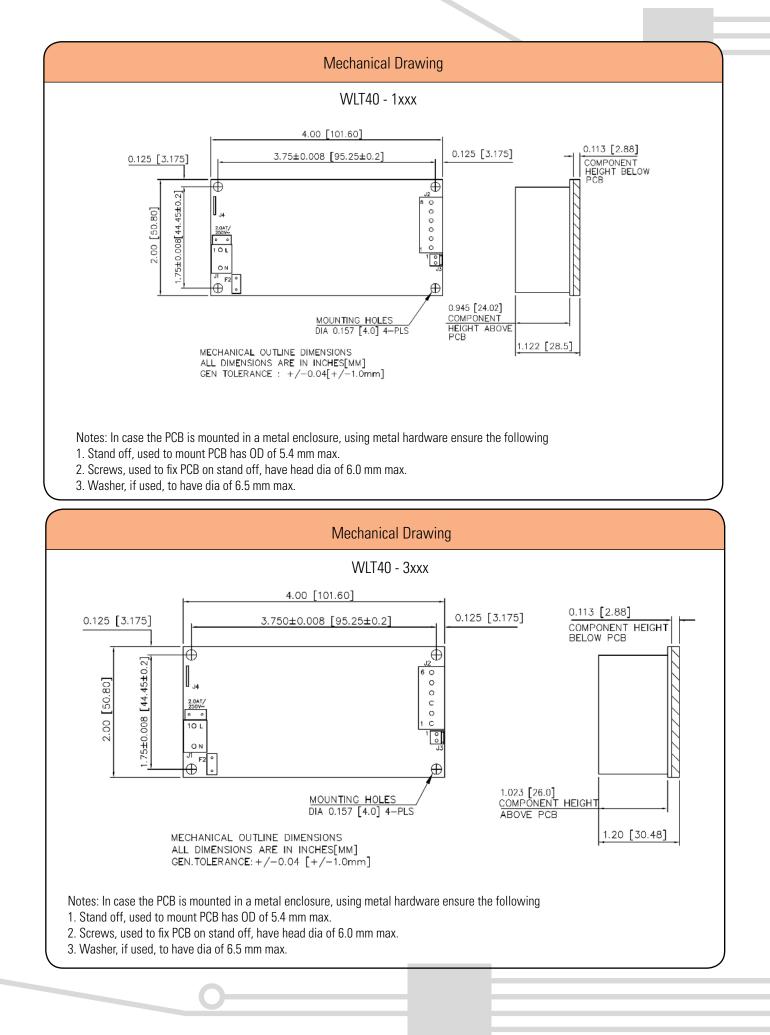
	EMC*		
Parameter	Conditions/Description	Criteria	
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass	
Radiated Emissions	EN 55032 B	Pass	
Input Current Harmonics	EN 61000-3-2	Class A	
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass	
ESD Immunity	EN 61000-4-2	Level 3, Criterion A	
Radiated 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		
Safety Standard(s)	IEC60950-1(ed.2), EN 60950-1, UL60950-1 (2nd Edition),CSA C22.2 No. 60950-1 (2nd Edition),		
	UL 62368-1, 2nd Ed, 2014-12-01 CAN/CSA C22.2 No. 62368-1-14, (2nd Edition), Class1 SELV		
	IEC 62368-1:2014 ,EN 62368-1:2014 ;A11		
*Safety File Number(s)		7 UL/C-UL: E150565, 20190628-E150565	
· · · · ·	Class II : Nemko: P13216532, N07272		

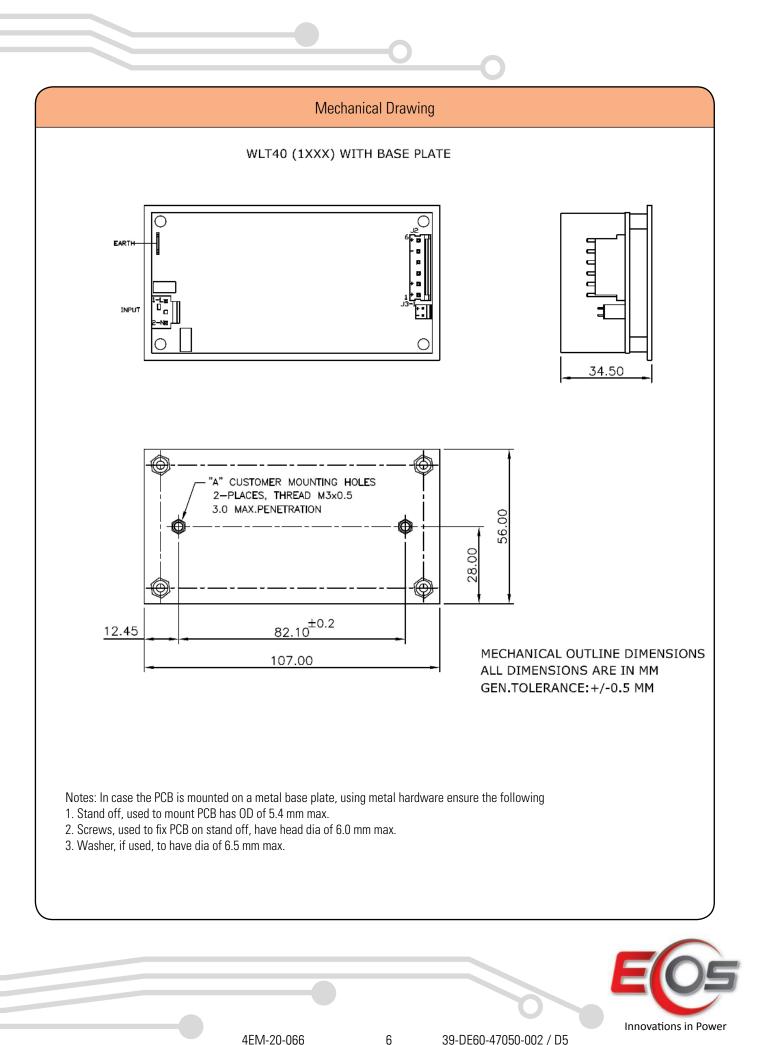


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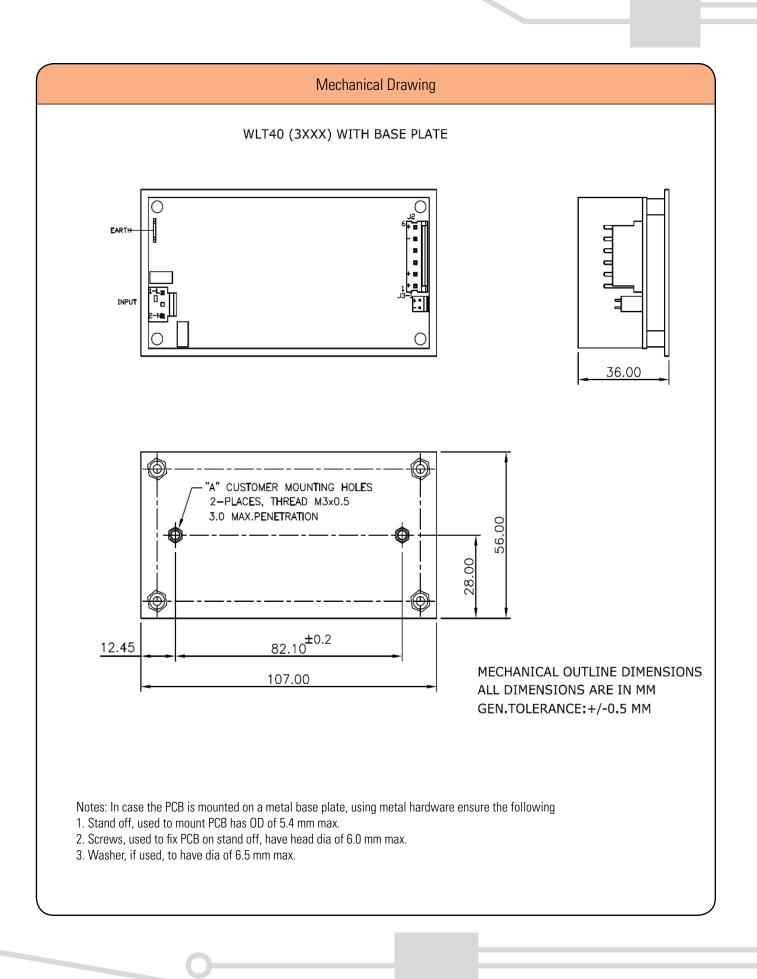


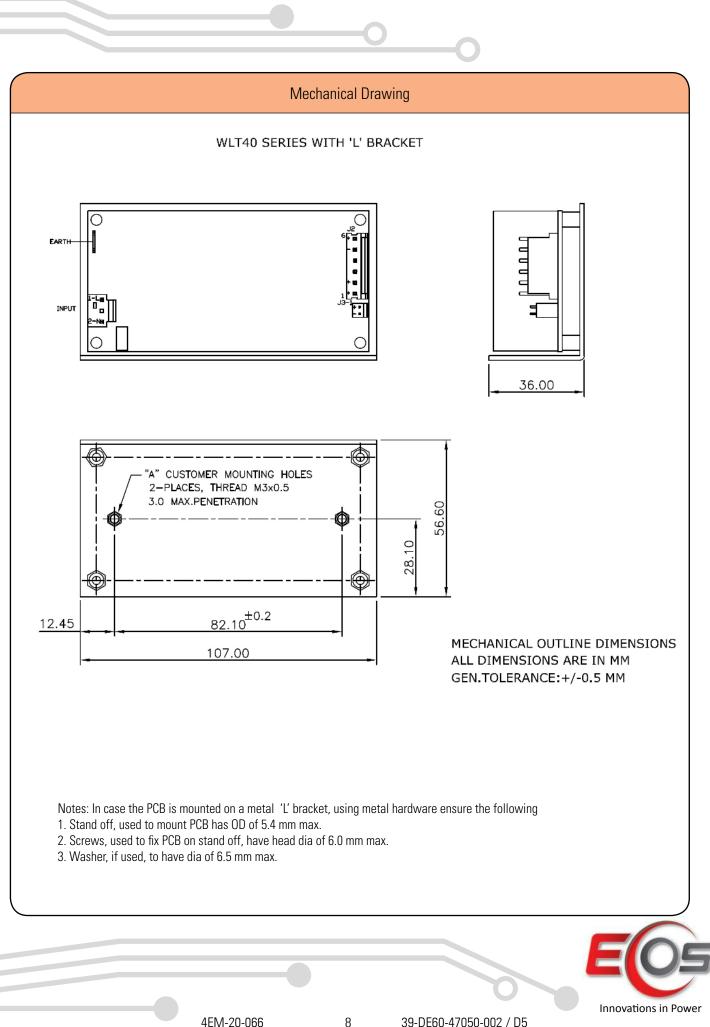
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