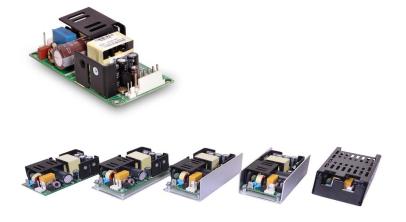
## 60 Watt Industrial (WLT)



## Features

- 50-65 W convection-cooled rating
- Small 4 x 2 x 1.2 inches form factor
- High efficiency > 85%
- Single to triple outputs
- EN55022-B, FCC Part 15 Level B
- No Load Power < 0.3 W
- Class I & Class II options
- Cover kit accessory available
- Now IEC/ EN/UL62368-1 compliant

(	Electrical Specifications		
AC Input	90–264 V, Universal		
Input Frequency <sup>5</sup>	47–400 Hz		
Input Current	120 VAC: 1.5 A max.	230 VAC: 0.75 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	50-65 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		
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 +85°C	-40 to +85°C	
Relative Humidity	95% Rh, noncondensing	5	
Altitude		Operating: 10,000 ft.; Nonoperating: 40,000 ft.	
MTBF	1.87m Hours, Telcordia -SR332-iss	1.87m Hours, Telcordia -SR332-issue 3	
Isolation Voltage	Min. 4242 VDC between input to output		
Cooling	Convection		

Model Number	Power Supply Unit 9	Maximum	Voltaga	Max Load3	Min Loodh	Pipplo4
Model Number	Power Supply Unit &	Maximum	Voltage	Max. Load <sup>3</sup>	Min. Load <sup>6</sup>	Ripple <sup>4</sup>
	its Installation Type	Wattage				1 50/
LFWLT60-1000-CK	In CK cover Kit <sup>11</sup>	35W	V1=5.0 V	7.0 A	0.00 A	1.5%
LFWLT60-1000	In Open Frame					1 50/
LFWLT60-1000-L	With L Bracket	50W	V1=5.0 V	10.0 A	0.00 A	1.5%
LFWLT60-1000-B	With Base Plate					
LFWLT60-1000-U	With U channel					1.0/
LFWLT60-1001-CK	In CK cover Kit <sup>11</sup>	45.5W	V1=12 V	3.79 A	0.00 A	1%
LFWLT60-1001	In Open Frame					1.0/
LFWLT60-1001-L LFWLT60-1001-B	With L Bracket	65W	V1=12 V	5.42 A	0.00 A	1%
	With Base Plate					
LFWLT60-1001-U LFWLT60-1002-CK	With U channel	45 511	14 45 1			1.0/
LFWLT60-1002-CK	In CK cover Kit <sup>11</sup>	45.5W	V1=15 V	3.03 A	0.00 A	1%
LFWLT60-1002 LFWLT60-1002-L	In Open Frame	a=11/			_	10/
LFWLT60-1002-L LFWLT60-1002-B	With L Bracket With Base Plate	65W	V1=15 V	4.33 A	0.00 A	1%
LFWLT60-1002-B LFWLT60-1002-U	With Base Plate With U channel					
LFWLT60-1002-0 LFWLT60-1003-CK	In CK cover Kit <sup>11</sup>		14 04 14			1%
LFWLT60-1003-CK		45.5W	V1=24 V	1.89 A	0.00 A	1%
LFWLT60-1003-L	In Open Frame With L Bracket	05144				1 0/
LFWLT60-1003-L	With Base Plate	65W	V1=24 V	2.71 A	0.00 A	1%
LFWLT60-1003-U	With Base Plate With U channel					
LFWLT60-1004-CK	In CK cover Kit <sup>11</sup>		1/1 401/	0.51.1	0.00	1%
LFWLT60-1004-CK	In Open Frame	45.5W	V1=48 V	0.94 A	0.00 A	I /0
LFWLT60-1004-L	With L Bracket				0.00	1%
LFWLT60-1004-B	With Base Plate	65W	V1=48 V	1.35 A	0.00 A	1 /0
LFWLT60-1004-U	With U channel					
LFWLT60-3000-CK	In CK cover Kit <sup>11</sup>	42) 14				
LFWLT60-3000	In Open Frame	42W	V/1 E 2 V			
LFWLT60-3000-L	With L Bracket	60147	V1=5.2 V,	V1=8.0 A,	V1=0.5 A,	V1=1.5 %,
LFWLT60-3000-B	With Base Plate	60W	V2=12.5 V,	V2=3.0 A,	V2=0.1 A,	V1=1.5 %, V2 & V3=1 %
LFWLT60-3000-U	With U channel		V3=-12.8 V	V3=0.5 A,	V3=0.0 A	v2 & v3-1 /0
LFWLT60-3001-CK	In CK cover Kit <sup>11</sup>	42\\/				
LFWLT60-3001	In Open Frame	42W	\/1_5 2 \/			
LFWLT60-3001-L	With L Bracket	60W	V1=5.2 V,	V1=8.0 A,	V1=0.5 A,	V1=1.5 %,
LFWLT60-3001-B	With Base Plate	UUVV	V2=24 V,	V2=1.5 A,	V2=0.1 A,	V1=1.3 %, V2 & V3=1 %
LFWLT60-3001-U	With U channel		V3=-12.8 V	V3=0.5 A	V3=0.0 A	v2 & v0-1 /0
LFWLT60-3002-CK	In CK cover Kit <sup>11</sup>	42W				
LFWLT60-3002 0K	In Open Frame	42 V V	V1=5.2 V,			
LFWLT60-3002-L	With L Bracket	60W	V 1=5.2 V, V2=15 V,	V1=8.0 A,	V1=0.5 A,	V1=1.5 %,
LFWLT60-3002-B	With Base Plate	0000	V2=15 V, V3=-15 V	V2=2.5 A,	V2=0.1 A,	V2 & V3=1 %
LFWLT60-3002-U	With U channel		VJ=-10 V	V3=0.5 A	V3=0.0 A	
LFWLT60-3003-CK	In CK cover Kit <sup>11</sup>	31.5W				
LFWLT60-3003	In Open Frame	31.377	V1=3.3 V,			
LFWLT60-3003-L	With L Bracket	45W	v 1=3.3 v, V2=5 V,	V1=6.0 A,	V1=1.0 A,	V1=1.5 %,
LFWLT60-3003-B	With Base Plate	4000	vz=5 v, V3=-12.8 V	V2=3.0 A,	V2=0.1 A,	V2 & V3=1 %
LFWLT60-3003-U	With U channel		VJ12.0 V	V3=0.5 A	V3=0.0 A	· 2 0 · 0 - 1 /0



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	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	)

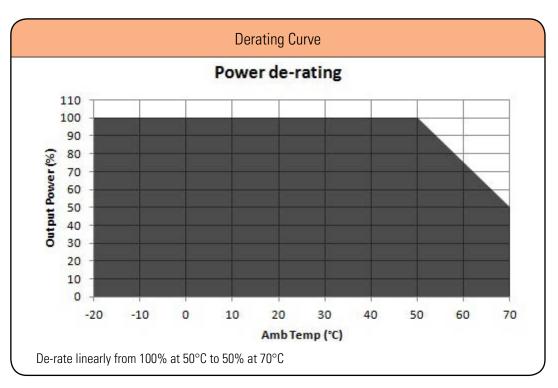
## Notes

1. For WLT60-3003 efficiency is 75% typical.

- 2. Single output models deliver 65 W, except WLT60-1000 (50 W). Triple output models deliver 60 W, except WLT60-3003 (45 W).
- 3. Maximum current per output channel. Do not exceed total output power rating.
- 4. 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.
- 5. Safety approved 47-63 Hz.
- 6. Min Load specified to meet cross regulation.
- 7. Class II version available. Add "-2" suffix at the end of the Model Number to Order. Enquire with EOS Sales Rep before Order.
- 8. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
- 9. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 10. Please refer mechnical outline drawing for height of component above and below PCB for 1xxx & 3xxx.
- 11. When used in Cover Kit, de-rate output power to 70 % under all operating conditions

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 Ed, Class1 SELV		
	IEC 62368-1:2014, EN 62368-1:2014; A11		
*Safety File Number(s)	Class I : Nemko: P15220205, N088354 UL/C-UL: E150565, 20190628-E150565		
	Class II : Nemko: P13216532, N072728	3 UL/C-UL: E150565	





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