WLP120 Industrial



Features

- 3" x 2" foot print
- Height 1" above PCB
- 120 Watts with Forced Air Cooling
- Efficiencies upto 93%
- -40 to 70 degree operating temperature (85°C operational available on request)
- Thermal Shut-Down feature
- Now IEC/UL62368-1:2018 Compliant
 New
- Fulfils EN 62368-1:2014 +A11:2017
- >3.00m Hours, Telcordia-SR332-issue 3
- No Load Power < 0.3W
- Approved with metal enclosures/accessories

	Electrical Specifications			
Input Voltage	85-264 VAC/390 VDC ⁴ , Universal (see derating under output power)			
Input Frequency	47–63 Hz			
Input Current	115 VAC: 1.2 A max. 230 VAC: 0.65 A max.			
No Load Power	less than 0.3W typical			
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A			
Efficiency	93%(48V,58V), 91%(24V,30V), 90%(12V,15V)			
Hold-up Time	>10 ms typical			
Power Factor	exceeds 0.95 with Full Load, Active PFC			
Output Power	Forced cooling : 120W with 300LFM (refer mechnical drawing)			
	Convection cooling : 100W (for input 100-264 VAC)			
	(de-rate linearly to 80W @ 85VAC)			
Output Voltage Adjustability	+/-3%			
Line Regulation	+/-0.5%			
Load Regulation	+/-1%			
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% ,recovery time < 5 ms			
Rise Time	55ms typical			
Set Point Tolerance	+/-1%			
Over Current Protection	Тур 110%			
Over Voltage Protection	110 to 140%, Latch type (AC recycling required)			
Short Circuit Protection	Hiccup mode			
Switching Frequency	60 KHz typical			
Operating Temperature ³	- 40 to +70°C, * -40 to 0°C startup is guaranteed with spec deviation			
	(85°C operational available on request)			
Storage Temperature	-40 to +85°C			
Relative Humidity	5% to 95%, noncondensing			
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.			
MTBF	>3.00m Hours, Telcordia-SR332-issue 3			
Isolation Voltage	Input to Output – 4000 VDC for ITE application			
	Input to GND - 2500 VDC			

Model Number	Power Supply Unit & its Installation Type	Power	Voltage	Max. Load (Convection)	Max. Load (300 LFM)	Ripple ¹
LFWLP120-1X01-CK	In CK cover Kit	70 W	12 V	5.83 A		1%
LFWLP120-1X01	In Open Frame					
LFWLP120-1X01-L	With L Bracket	120 W	12 V	8.33 A	10.0 A	1%
LFWLP120-1X01-B	With Base Plate					
LFWLP120-1X01-U	With U channel					
LFWLP120-1X02-CK	In CK cover Kit	70 W	15 V	4.66 A		1%
LFWLP120-1X02	In Open Frame					
LFWLP120-1X02-L	With L Bracket	120 W	15 V	6.66 A	8.0 A	1%
LFWLP120-1X02-B	With Base Plate					
LFWLP120-1X02-U	With U channel					
LFWLP120-1X03-CK	In CK cover Kit	70 W	24 V	2.91 A		1%
LFWLP120-1X03	In Open Frame					
LFWLP120-1X03-L	With L Bracket	120 W	24 V	4.16 A	5.00 A	1%
LFWLP120-1X03-B	With Base Plate					
LFWLP120-1X03-U	With U channel					
LFWLP120-1X04-CK	In CK cover Kit	70 W	48 V	1.46 A		1%
LFWLP120-1X04	In Open Frame					
LFWLP120-1X04-L	With L Bracket	120 W	48 V	2.08 A	2.5 A	1%
LFWLP120-1X04-B	With Base Plate					
LFWLP120-1X04-U	With U channel					
LFWLP120-1X05-CK	In CK cover Kit	70 W	30 V	2.33 A		1%
LFWLP120-1X05	In Open Frame					
LFWLP120-1X05-L	With L Bracket	120 W	30 V	3.33 A	4.0 A	1%
LFWLP120-1X05-B	With Base Plate					
LFWLP120-1X05-U	With U channel					
LFWLP120-1X06-CK	In CK cover Kit	70 W	58 V	1.20 A		1%
LFWLP120-1X06	In Open Frame					
LFWLP120-1X06-L	With L Bracket	120 W	58 V	1.72 A	2.07 A	1%
LFWLP120-1X06-B	With Base Plate					
LFWLP120-1X06-U	With U channel					
	sion replace "X" above with "O' lace "X" above with "3", examp	•				



Connectors						
J1	Pin 1	AC LINE				
	Pin 2	NOT FITTED				
	Pin 3	AC NEUTRAL				
J2	Pin 1,2	V1 -VE				
	Pin 3,4	V1 +VE				

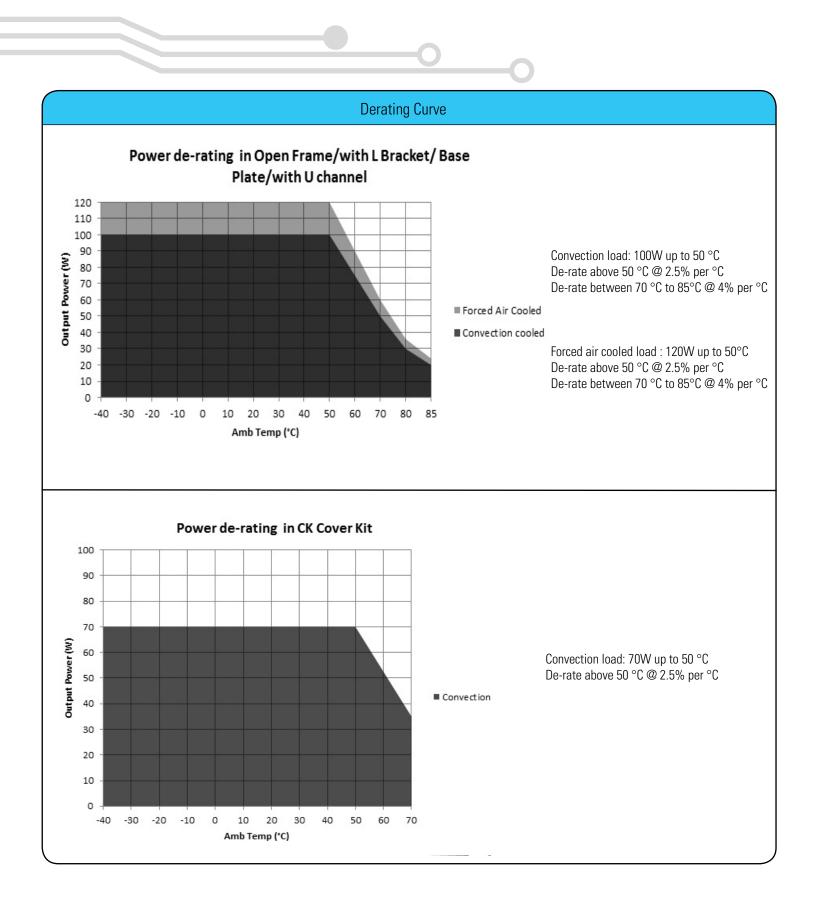
Notes

- 1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Electrolytic capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 2. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 3. Output ripple can be more than 10% of the output voltage.

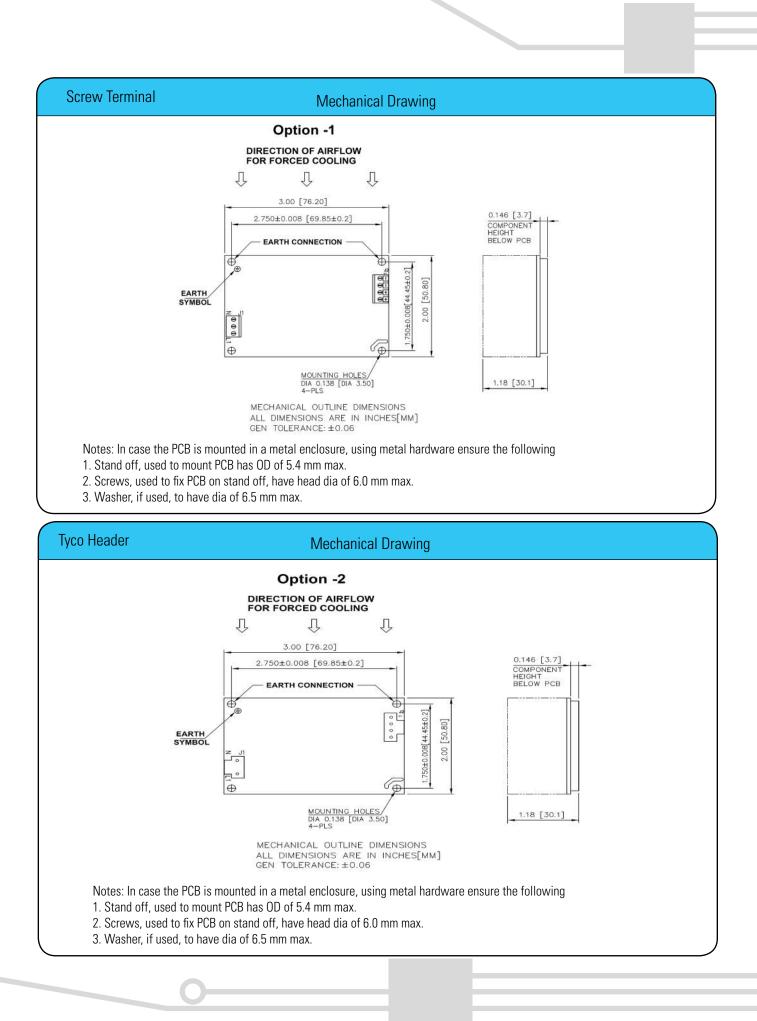
4. Functional, not approved.

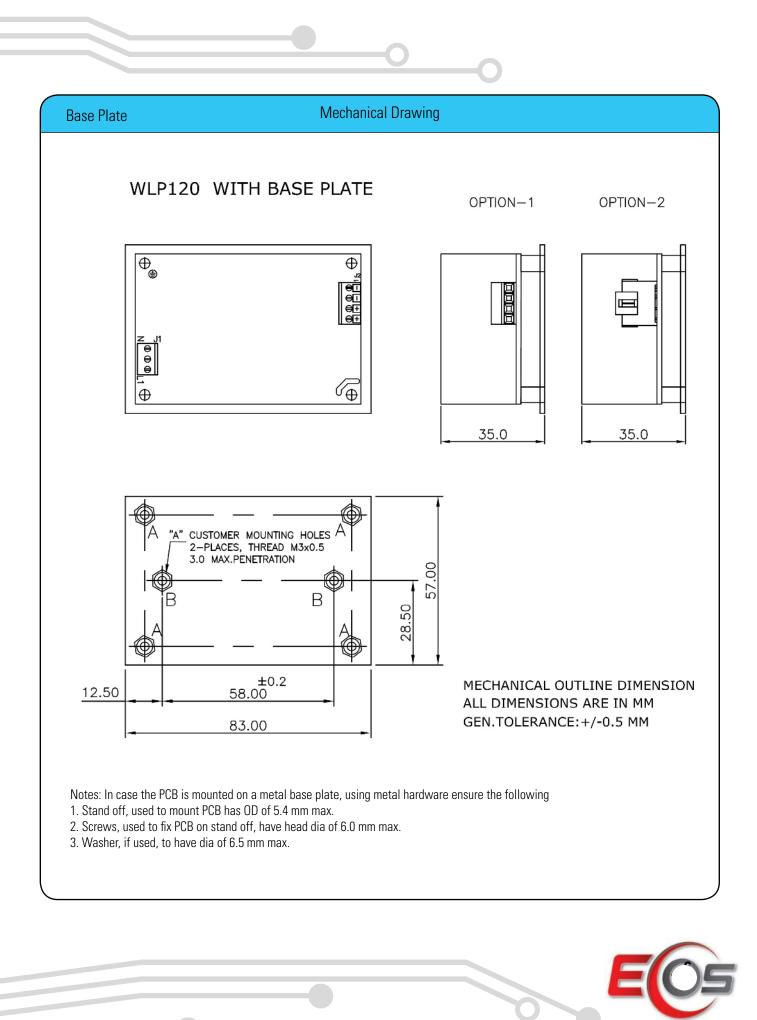
- 5. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.
- 6. For Class II version Enquire with EOS Sales Rep before Order

	Mechanical S	pecifications	
AC Input Connector (J1) Option 1	Molex: 39357-0003 Tyco: 2-1776112-3	(J1) Option 2	Molex: 1722861103 (Mating conn: Molex 1722561003) (Mating conn: Molex 1722561103) (Mating conn: Molex 1722563103)
DC Output Connector (J2) Option 1	Molex: 39357-0004 Tyco: 2-1776112-4	(J2) Option 2	Molex: 1722861104 (Mating conn: Molex 1722561004) (Mating conn: Molex 1722561104) (Mating conn: Molex 1722563104)
Dimensions	3 x 2 x 1.18 inches (76.2 x 50.8 x 30.1 mm)		
Weight	200gm Max.		
	EMC		
Parameter	Conditions/Description	Crite	eria
Conducted Emissions	EN55032-B, CISPR22-B, FCC	PART15-B Pass	
Radiated Emissions	EN 55032 A	Pass	
		Level B w	vith external core (King core K5B RC
		25x12x15	i-M in input cable)
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, C	Criterion A
Electrical Fast Transient Immunity	EN 61000-4-4 Level 3, Criterion A		Criterion A
Surge Immunity	EN 61000-4-5 Level 3, Criterion A		Criterion A
Conducted Immunity	EN 61000-4-6 Level 3, Criteri		Criterion A
Magnetic Field Immunity	EN 61000-4-8 Level 3, Criterion A		Criterion A
Voltage dips, interruptions	EN 61000-4-11 Criterion A & B		A & B
	Safety	<i>,</i>	
CE Mark	Complies with LVD Direct	ive	
Approval Agency	Nemko, UL, C-UL		
Safety Standard(s)	IEC 62368-1:2018, EN 62368	-1:2014;A11,	
· · · · · · · · · · · · · · · · · ·	UL 62368-1 and CAN/CSA C2		
Safety File Number(s)		umber 20200713-E515384	4, Nemko: Certificate No. P20224328,
	Environm	ental	
RoHS Version	LFWLP120 series meet RoHS (Directive 2011 / 65 / EU)	S compliance as per europea	an RoHS directive





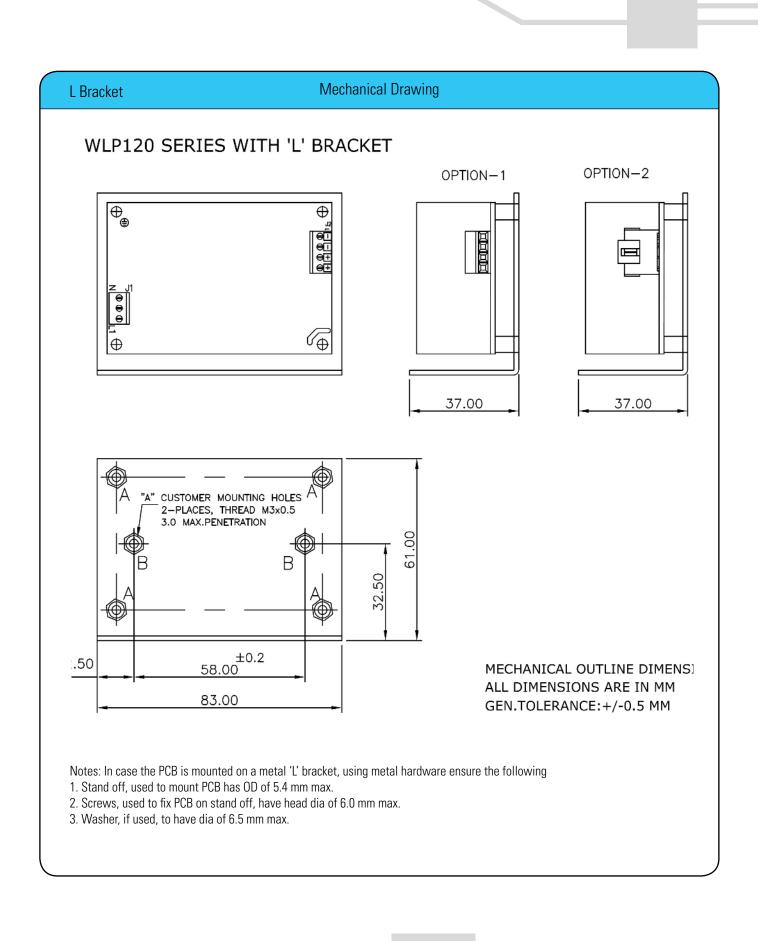


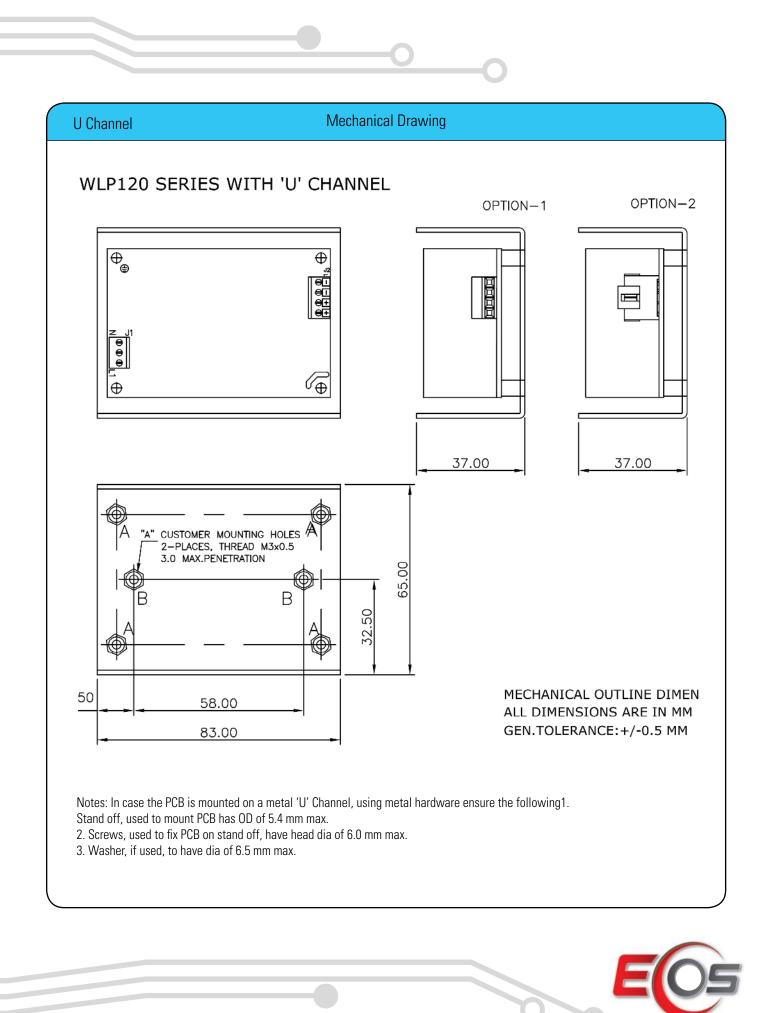




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39-DE60-49050-002 / A10





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