

Features

- 4 x 2 x 1 Inches Form factor
- 225 Watt Forced cooled, 130W Convection cooled
- Efficiencies upto 94% & No Load Power < 0.5W
- -40°C to 70°C degree operating temperature*
- 12V / 0.5A Fan Output, Thermal Shut-Down feature
- 3.37m Hours, Telcordia -SR332-issue 3 MTBF
- Remote ON/OFF New
- Now IEC/UL62368-1:2018 (Ed 3.0) Compliant New
- CCC (China Compulsory Certification approval) certified New
- Approved with metal enclosures/accessories

	Electrical Specifications		
nput Voltage	85-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 95% at 85V AC)		
Input Frequency	47–63 Hz		
Input Current	115 VAC: 2.2 A max. 230 VAC: 1.1 A max.		
No Load Power	less than 0.5W typical		
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A		
Leakage Current	300 uA Typical, (N.A. For Class II Option) Touch current <100uA		
Efficiency	94%(48V), 93%(24V,30V), 92%(12V,15V)		
Hold-up Time	at 225W:10 ms ; 110W: 16 ms		
Power Factor	exceeds 0.95 with Full Load		
Output Power	225W with 13 CFM, up to 120W Convection		
Line Regulation	+/-0.5%		
Load Regulation	+/-0.5%		
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4%, recovery time $<5ms$		
Rise Time	55ms typical		
Set Point Tolerance	+/-1%		
Output Voltage Adjustment	+/-3% (Ref. Note 8)		
Over Current Protection	>110%		
Over Voltage Protection	110 to 140%		
Short Circuit Protection	Hiccup mode		
Switching Frequency	PFC – 70 to 130 KHz ,PWM – 50-80 KHz		
Operating Temperature ⁷	- 40 to +70°C, * -40 to 0°C startup is guaranteed with spec deviation		
Storage Temperature	-40 to +85°C		
Relative Humidity	5% to 95%, noncondensing		
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.		
MTBF	3.37m Hours, Telcordia -SR332-issue 3		
Isolation Voltage	Input to Output – 4000 VDC for ITE application		
	Input to GND - 2500 VDC (Not Applicable For Class II Option)		
Cooling	up to 225W with 13 CFM forced air cooling ⁶ (refer Mechanical Drawing)		
	up to 120 W with natural convection cooling ⁶ (refer Derating Curve)		

4EM-20-320 1 39-DE60-46750-002 / D10

Model Number	Power Supply Unit & its Installation Type	Power	Voltage	Max. Load (Convection) (112.5 W) 50°C	Max. Load (Convection) (120 W) 40°C	Max. Load (13CFM) (225 W)
LFWLP225-1X01-CK	In CK cover Kit	84 W	12 V	6.50 A	7.00 A	
LFWLP225-1X01	In Open Frame					
LFWLP225-1X01-L	With L Bracket	225 W	12 V	9.37 A	10.0 A	18.75 A
LFWLP225-1X01-B	With Base Plate					
LFWLP225-1X01-U	With U channel					
LFWLP225-1X02-CK	In CK cover Kit	84 W	15 V	5.25 A	5.60 A	
LFWLP225-1X02	In Open Frame					
LFWLP225-1X02-L	With L Bracket	225 W	15 V	7.5 A	8.00 A	15.0 A
LFWLP225-1X02-B	With Base Plate					
LFWLP225-1X02-U	With U channel					
LFWLP225-1X03-CK	In CK cover Kit	84 W	24 V	3.28 A	3.50 A	
LFWLP225-1X03	In Open Frame					
LFWLP225-1X03-L	With L Bracket	225 W	24 V	4.68 A	5.0 A	9.37 A
LFWLP225-1X03-B	With Base Plate					
LFWLP225-1X03-U	With U channel					
LFWLP225-1X04-CK	In CK cover Kit	84 W	48 V	1.64 A	1.75 A	
LFWLP225-1X04	In Open Frame					
LFWLP225-1X04-L	With L Bracket	225 W	48 V	2.34 A	2.5 A	4.68 A
LFWLP225-1X04-B	With Base Plate					
LFWLP225-1X04-U	With U channel					
LFWLP225-1X05-CK	In CK cover Kit	84 W	30 V	2.63 A	2.80 A	
LFWLP225-1X05	In Open Frame					
LFWLP225-1X05-L	With L Bracket	225 W	30 V	3.75 A	4.0 A	7.5 A
LFWLP225-1X05-B	With Base Plate					
LFWLP225-1X05-U	With U channel					
LFWLP225-1X06-CK	In CK cover Kit	84 W	58 V	1.36 A	1.45 A	
LFWLP225-1X06	In Open Frame					
LFWLP225-1X06-L	With L Bracket	225 W	58 V	1.94 A	2.07 A	3.88 A
LFWLP225-1X06-B	With Base Plate					
LFWLP225-1X06-U	With U channel					

For Screw Terminal version replace "X" above with "0" (example: LFWLP225-1005)

For Header version replace "X" above with "3" (example: LFWPL225-1305)

Add Suffix '0' for Remote On/Off option (example: LFWLP225-1303-0)

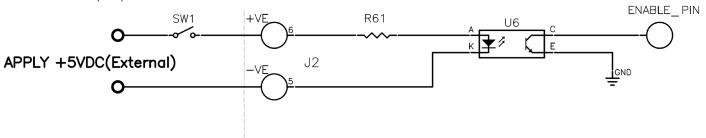


Pin Connection					
J1	Pin 1	AC LINE			
	Pin 2	NOT FITTED			
	Pin 3	AC NEUTRAL			
J2 Option 1 & 2	Pin 1,2,3	V1 +VE			
	Pin 4,5,6	V1 -VE			
J3	Pin 1	FAN +VE			
	Pin 2	FAN -VE			

REMOTE ON/OFF INHIBIT



SWITCH (SW1) OPEN-POWER SUPPLY UNIT OPERATING. SWITCH (SW1) CLOSED-POWER SUPPLY UNIT INHIBITED.



Note: External supply voltage can be changed with pre Information

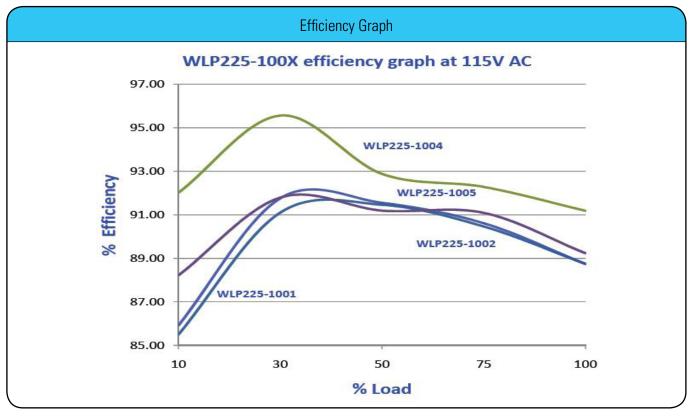
Notes

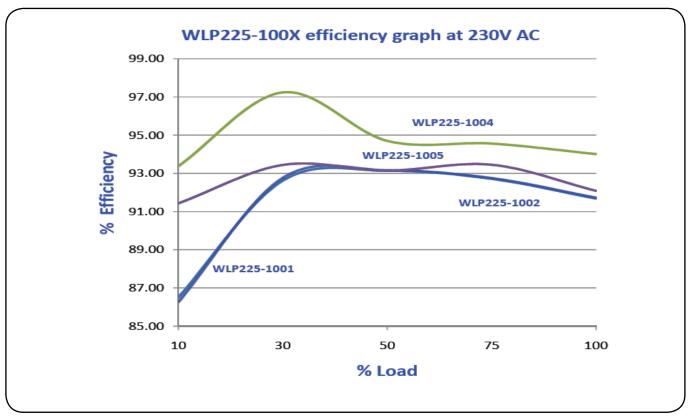
- 1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Electrolytic capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 2. Class II version available. Add "-II" suffix at the end of the Model Number to Order.
- 3. Combined output power of main output, fan supply shall not exceed max. Power rating.
- 4. Fan supply output voltage tolerance including set point accuracy, line and load regulation is +/-15 % and Ripple and noise is less than 10 %. With V1 fully loaded, Vfan need to have min load of 20mA to be within regulation band.
- 5. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 6. 225W with 13CFM forced air cooling and 120W with natural convection cooling at 100 to 264VAC.
- 7. Output ripple can be more than 10% of the output voltage.
- 8. Adjustment potentiometer is located on the SMT side of the PCB.
- 9. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.
- 10. For improved thermal performance of WLP225 up to 130W convection cooling, enquire with EOS Sales Rep before Order.



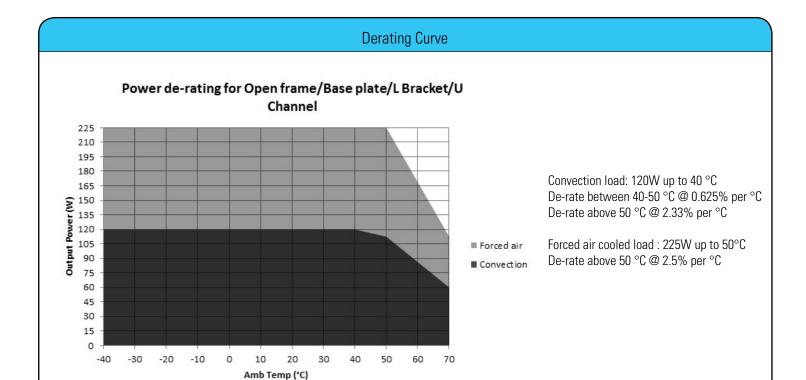
	Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030	
	Mating: 09-50-3031; Pins: 08-50-0106	
DC Output Connector (J2) Option 1 (Screw Terminal)	Molex: 39357 Series or equivalent	
DC Output Connector (J2) Option 2	Molex: 26-60-4060	
(Molex Connector)	Mating: 09-50-3061; Pins: 08-50-0106	
Aux (Fan) Output(J3)	AMP :640456-2	
	Mating: 640440-2	
Dimensions	4 x 2 x 1 inches	
	(101.60 x 50.8x 25.4 mm)	
Weight	200 gm approx	
	EMC	
Parameter		Criteria
Conducted Emissions		Pass
Radiated Emissions		Pass
		Level B with external core (King core K5B
		RC 25x12x15-M in input cable)
Input Current Harmonics		Class D
Voltage Fluctuation and Flicker		Pass
ESD Immunity		Level 3, Criterion A
Radiated Field Immunity		Level 3, Criterion A
Electrical Fast Transient Immunity		Level 3, Criterion A
Surge Immunity		Level 3, Criterion A
Conducted Immunity		Level 3, Criterion A
Magnetic Field Immunity		Level 3, Criterion A
Voltage dips, interruptions		Criterion A & B
	Safety	
CE Mark	Complies with LVD Directive	
Approval Agency	Nemko, UL, C-UL , CCC	
Safety Standard(s)	IEC 62368-1:2018, EN 62368-1:2020;A11	
	UL 62368-1 and CAN/CSA C22.2 No. 62368-1:1	9,
	GB 17625.1-2012; GB 4943. 1-2011; GB/T 9254-	2008
Safety File Number(s)	Class-I : Nemko: Certificate No. P21225480). CB Certificate No.: N0110371
	UL: Certificate Number 20200529-E515384	

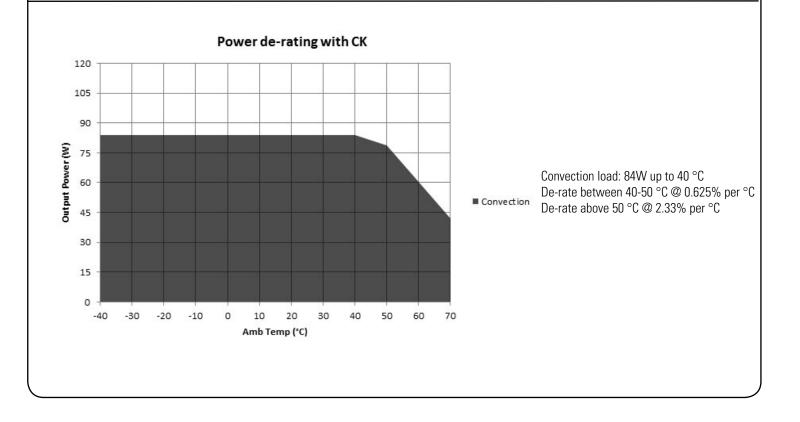
4EM-20-320 4 39-DE60-46750-002 / D10







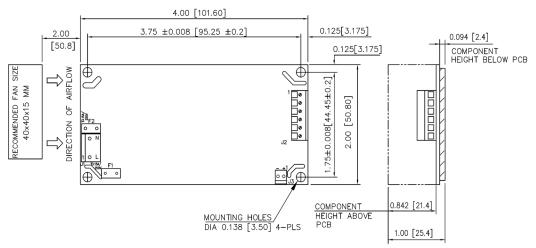




4EM-20-320 6 39-DE60-46750-002 / D10

Mechanical Drawing

Option 1



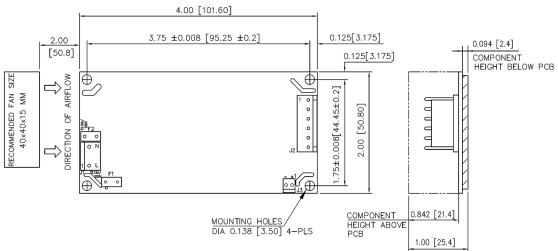
MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN INCHES[MM] GEN TOLERANCE :+/-0.04 [+/-1.0MM]

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.

Mechanical Drawing

Option 2

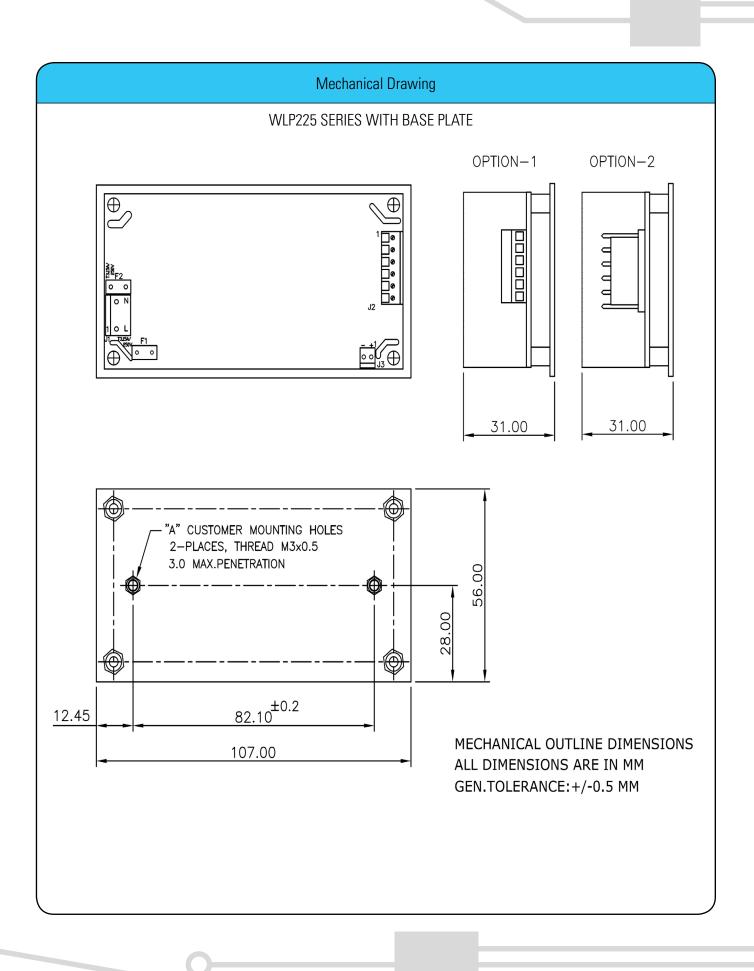


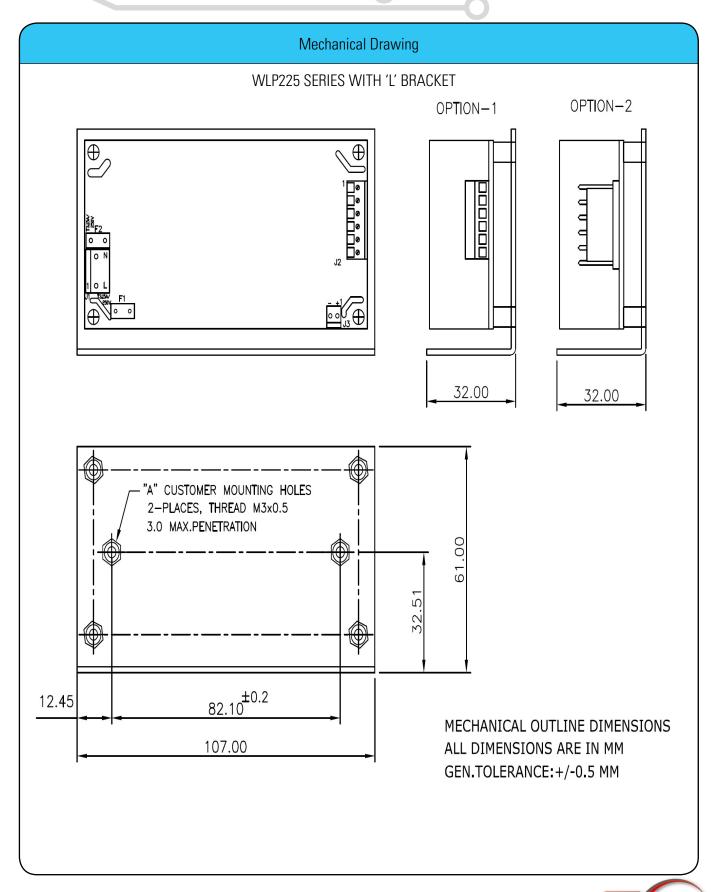
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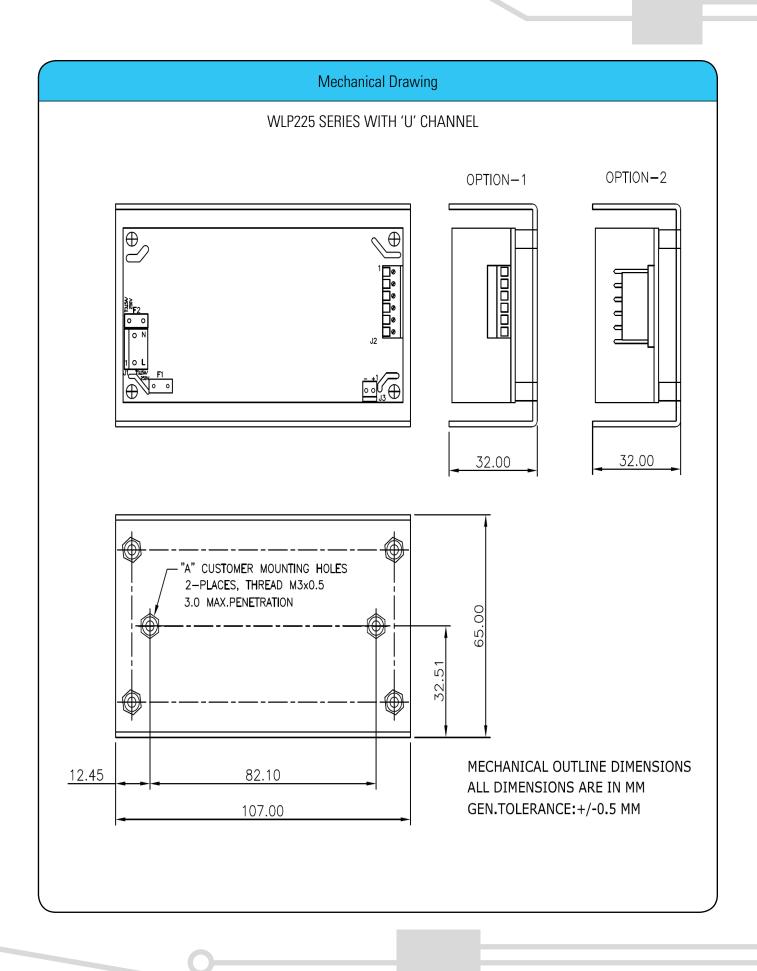
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4EM-20-320 7 39-DE60-46750-002 / D10

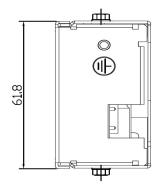


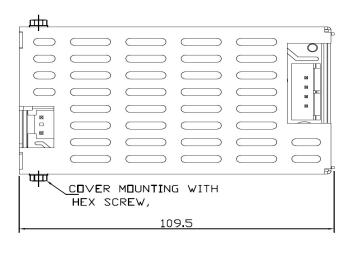




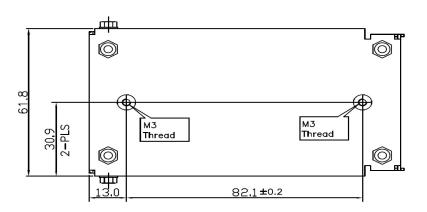
Mechanical Drawing

WLP225 SERIES WITH COVER KIT







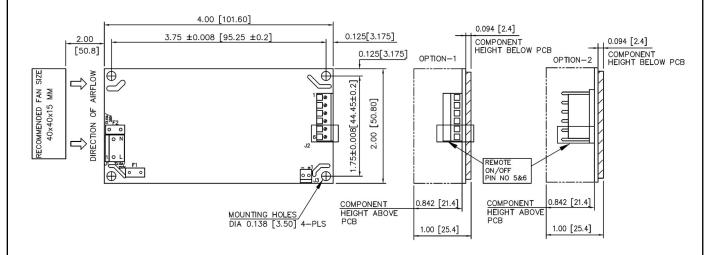


MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN MM
GEN TOLERANCE: +/-1.0 MM
MATERIAL: CRCA/GI 1.0MM THICK
(POWDER COATING/ PASSIVATION/
ED COATING BLACK)

Mechanical Drawing

WLP225 SERIES WITH REMOTE ON/OFF

WLP225 SERIES WITH REMOTE ON/OFF



MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN INCHES[MM] GEN TOLERANCE :+/-0.04 [+/-1.0MM]

4EM-20-320 12 39-DE60-46750-002 / D10