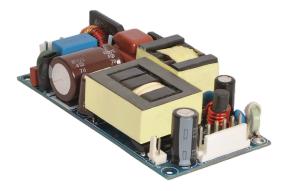
225 Watt Industrial



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
- CCC (China Compulsory Certification approval) certified
- Approved with metal enclosures/accessories

	Electrical Specifications
Input 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 < 5 ms
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)

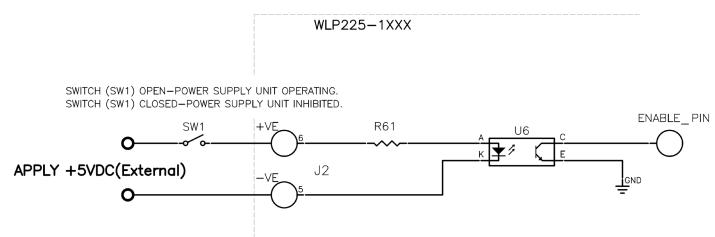
Model Number	Power Supply Unit & its Installation Type	Power	Voltage	Max. Load (Convection) (112.5 W) 50°C	Max. Load (Convection) (120 W) 40°C	Max. Load (13CFM) (225 W)
LFWLP225-1X01-CK	In CK cover Kit	84 W	12 V	6.50 A	7.00 A	
LFWLP225-1X01	In Open Frame					
LFWLP225-1X01-L	With L Bracket	225 W	12 V	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					





	Pin Connec	tion	
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



Note : External supply voltage can be changed with pre Information

Notes

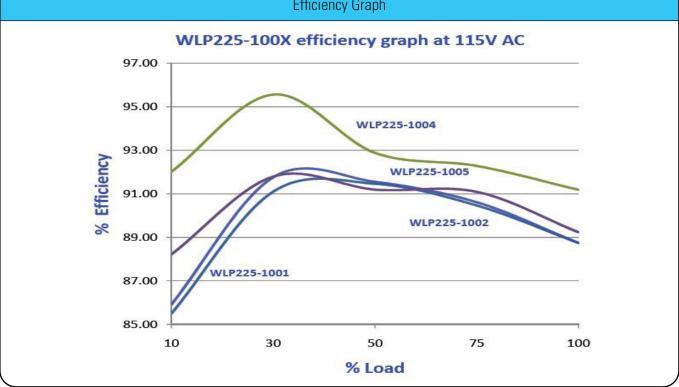
- 1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Electrolytic capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 2. Class II version available. Add "-II" suffix at the end of the Model Number to Order.
- 3. Combined output power of main output, fan supply 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.

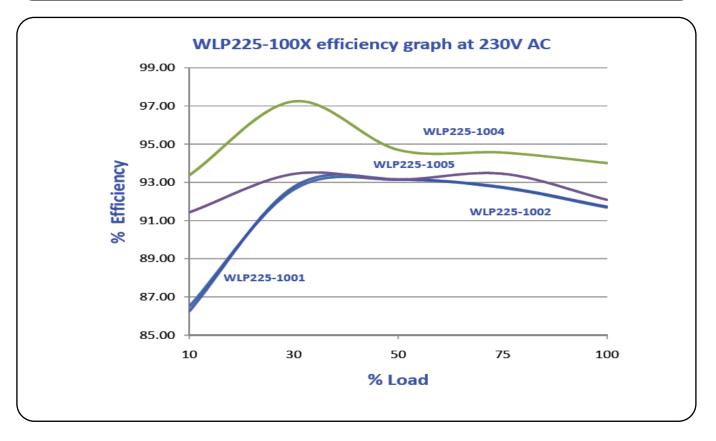


	Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030	
	Mating: 09-50-3031; Pins: 08-50-0106	
DC Output Connector (J2) Option 1 (Screw Terminal)	Molex: 39357 Series or equivalent	
DC Output Connector (J2) Option 2	Molex: 26-60-4060	
(Molex Connector)	Mating: 09-50-3061; Pins: 08-50-0106	
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 K	5B
	RC 25x12x15-M in input cable)	
nput 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	
/oltage dips, interruptions	Criterion A & B	
	Safety	
E Mark	Complies with LVD Directive	
pproval Agency	Nemko, UL, C-UL , CCC***	
Gafety Standard(s)	IEC 62368-1:2018, EN 62368-1:2020;A11	
	UL 62368-1 and CAN/CSA C22.2 No. 62368-1:19,	
	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, CCC Certificate No.: 201501090783008	35
	*** Available at additional cost to know more please contact sales.	

4

Efficiency Graph

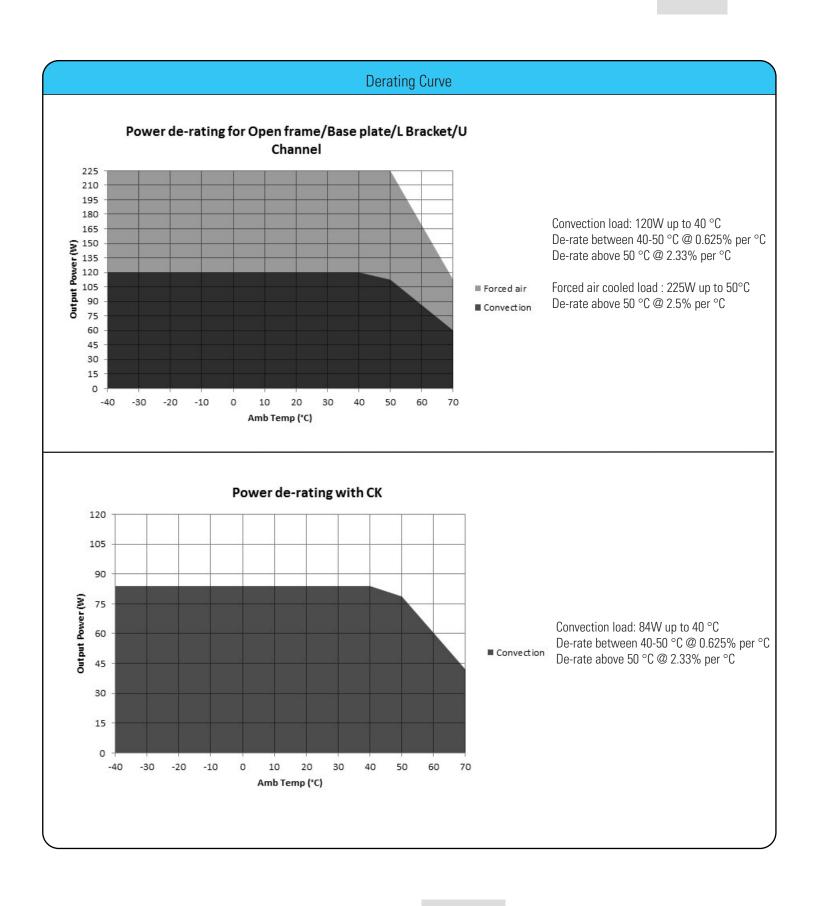






4EM-20-320

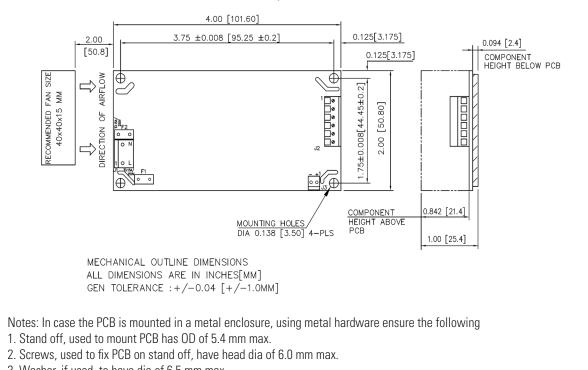
5



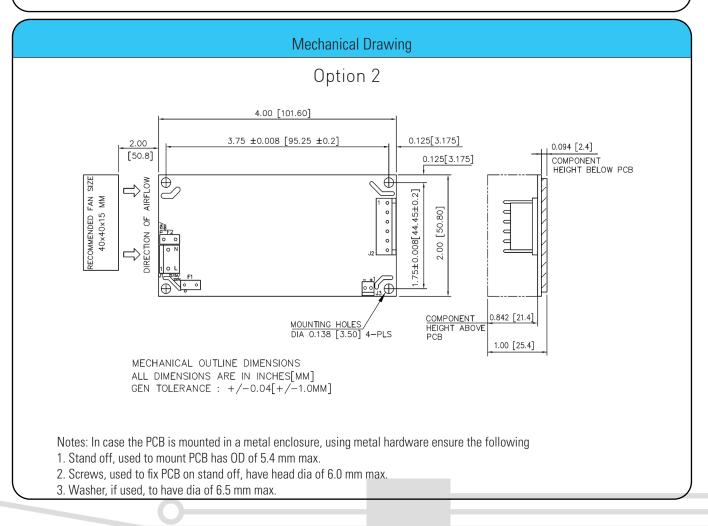
4EM-20-320

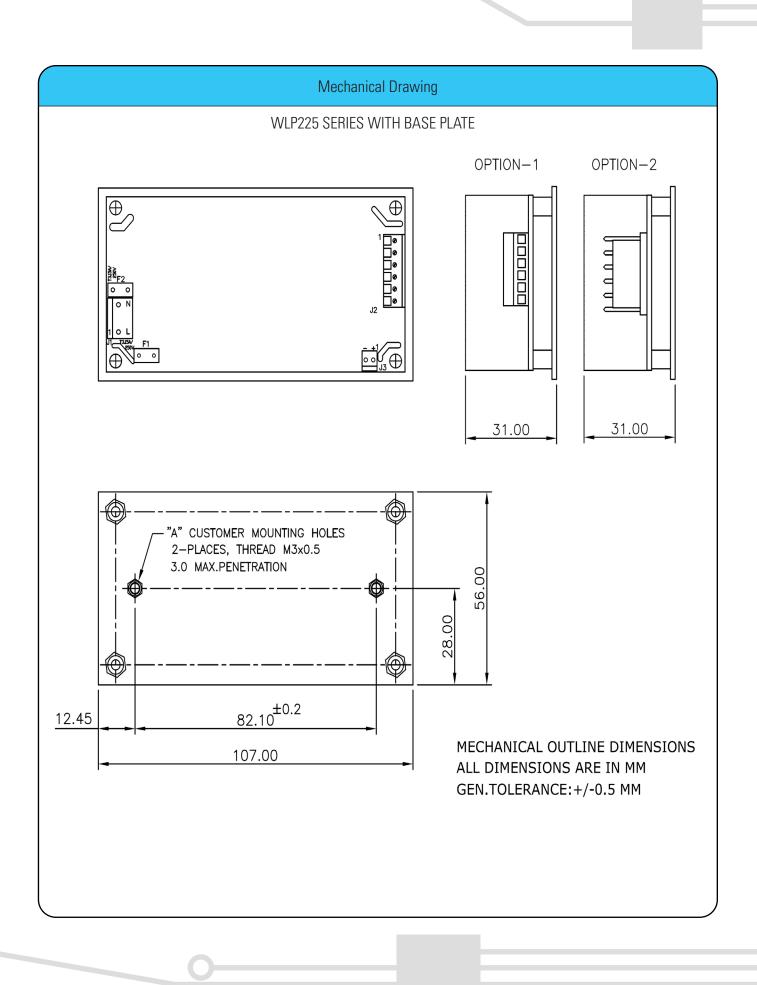
Mechanical Drawing

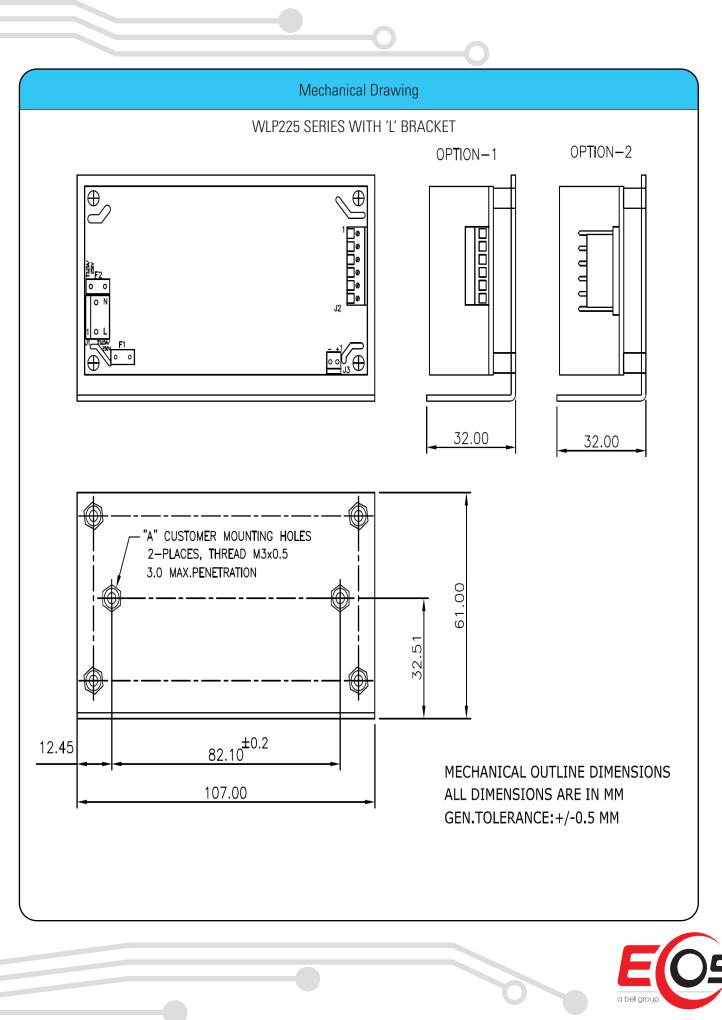




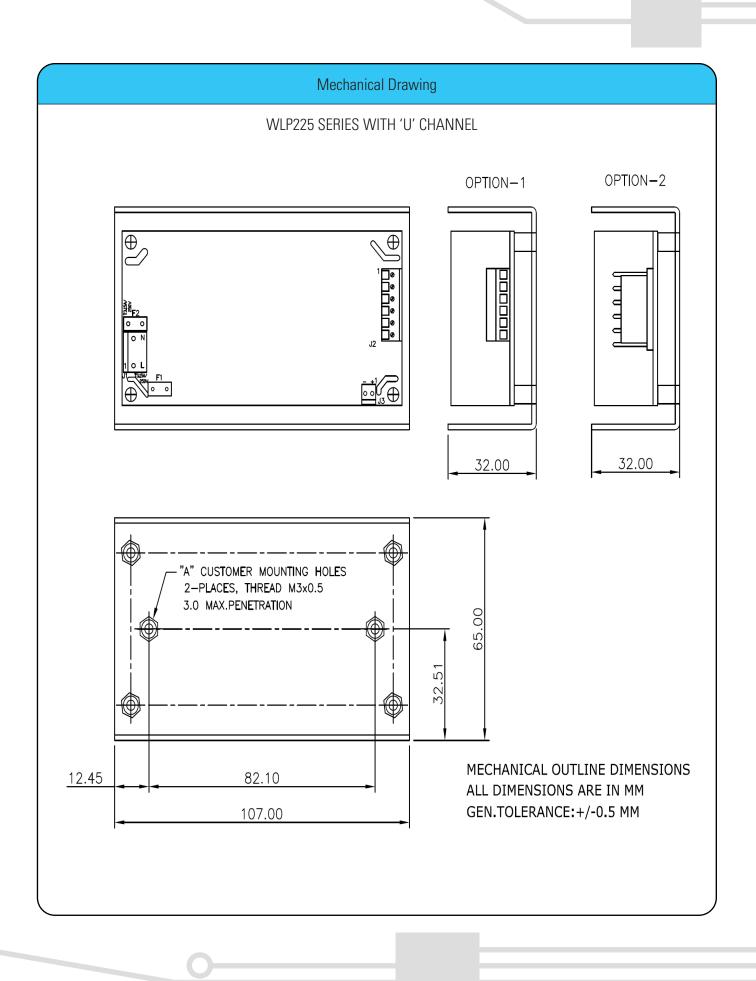
3. Washer, if used, to have dia of 6.5 mm max.



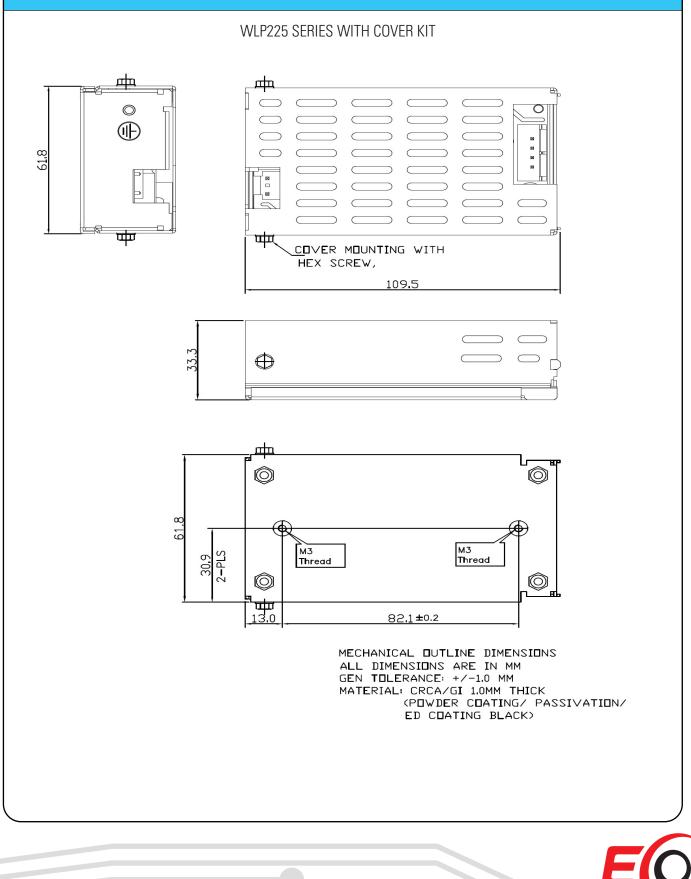




39-DE60-46750-002 / D10



Mechanical Drawing



a bel group

