

Features

- 3 x 2 x 1 Inches Form factor
- 75 Watts Convection
- Efficiencies upto 93%
- -40 to 70 degree operating temperature
- Thermal Shut-Down feature
- Now IEC/UL62368-1:2018 Compliant New
- Fulfils EN 62368-1:2014 +A11:2017
- 2.00m 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 (Derate from 75W at 100V AC to 65W at 85V AC)			
Input Frequency	47-63 Hz			
Input Current	115 VAC: 1 A max. 230 VAC: 0.5 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	>16 ms typical			
Power Factor	exceeds 0.95 with Full Load, Active PFC			
Output Power	75W Convection			
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	Typ 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			
Storage Temperature	-40 to +85°C			
Relative Humidity	5% to 95%, noncondensing			
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.			
MTBF	2.00m Hours, Telcordia-SR332-issue 3			
Isolation Voltage	Input to Output – 4000 VDC for ITE application			
	Input to GND - 2500 VDC			
Cooling	75W with natural convection cooling at 100 to 264VAC.			

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Model Number	Power Supply Unit & its Installation Type	Power	Voltage	Max. Load (Convection)	Ripple ¹
LFWLP75-1X01-CK	In CK cover Kit	52.5 W	12 V	4.38 A	1%
LFWLP75-1X01	In Open Frame				
LFWLP75-1X01-L	With L Bracket	75 W	12 V	6.25 A	1%
LFWLP75-1X01-B	With Base Plate				
LFWLP75-1X01-U	With U channel				
LFWLP75-1X02-CK	In CK cover Kit	52.5 W	15 V	3.50 A	1%
LFWLP75-1X02	In Open Frame				
LFWLP75-1X02-L	With L Bracket	75 W	15 V	5.00 A	1%
LFWLP75-1X02-B	With Base Plate				
LFWLP75-1X02-U	With U channel				
LFWLP75-1X03-CK	In CK cover Kit	52.5 W	24 V	2.18 A	1%
LFWLP75-1X03	In Open Frame				
LFWLP75-1X03-L	With L Bracket	75 W	24 V	3.12 A	1%
LFWLP75-1X03-B	With Base Plate				
LFWLP75-1X03-U	With U channel				
LFWLP75-1X04-CK	In CK cover Kit	52.5 W	48 V	1.09 A	1%
LFWLP75-1X04	In Open Frame				
LFWLP75-1X04-L	With L Bracket	75 W	48 V	1.56 A	1%
LFWLP75-1X04-B	With Base Plate				
LFWLP75-1X04-U	With U channel				
LFWLP75-1X05-CK	In CK cover Kit	52.5 W	30 V	1.75 A	1%
LFWLP75-1X05	In Open Frame				
LFWLP75-1X05-L	With L Bracket	75 W	30 V	2.50 A	1%
LFWLP225-1X05-B	With Base Plate				
LFWLP225-1X05-U	With U channel				
LFWLP75-1X06-CK	In CK cover Kit	52.5 W	58 V	0.90 A	1%
LFWLP75-1X06	In Open Frame				
LFWLP75-1X06-L	With L Bracket	75 W	58 V	1.29 A	1%
LFWLP75-1X06-B	With Base Plate				
LFWLP75-1X06-U	With U channel				

For Header version replace "X" above with "3", example LFWLP75-1305

LFWLP120/75-CK metal cover kit accessory available.



Pin Connections					
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

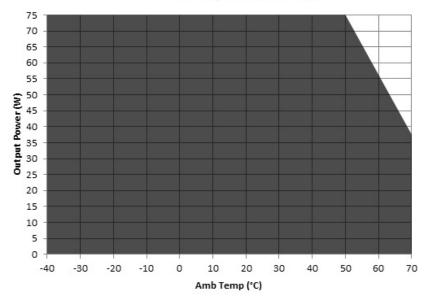
- 1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Electrolytic capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
- 2. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 3. Output ripple can be more than 10% of the output voltage.
- 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 Specifica	ations		
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 inches (76.2 x 50.8 x 25.4 mm)			
Weight	180gm Max.			
	EMC			
Parameter	Conditions/Description	Crit	teria	
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass		
Radiated Emissions	EN 55032 A	Pass		
			ith external core (King core K5B RC -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, C	riterion A	
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A		
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, C	riterion A	
Surge Immunity	EN 61000-4-5	Level 3, C	riterion A	
Conducted Immunity	EN 61000-4-6	Level 3, C	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)	IEC 62368-1:2018,			
Safety Standard(s)	EN 62368-1:2014;A11,			
	UL 62368-1 and CAN/CSA C22.2 No. 6	32368-1·19		
Safety File Number(s)			Nemko: Certificate No. P20224328,	
	Environmental			
RoHS Version	LFWLP75 series meet RoHS compliand (Directive 2011 / 65 / EU)	ce as per european Ro	oHS directive	

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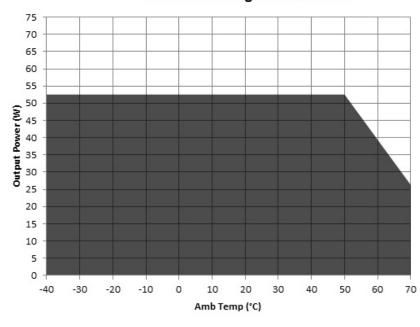
Derating Curve

Power de-rating in Open Frame/with L Bracket/ Base Plate/with U channel



■ Convection load: 75W up to 50°C De-rate above 50 °C @ 2.5% per °C

Power de-rating in CK cover kit



Convection load: 52.5W up to 50 °C

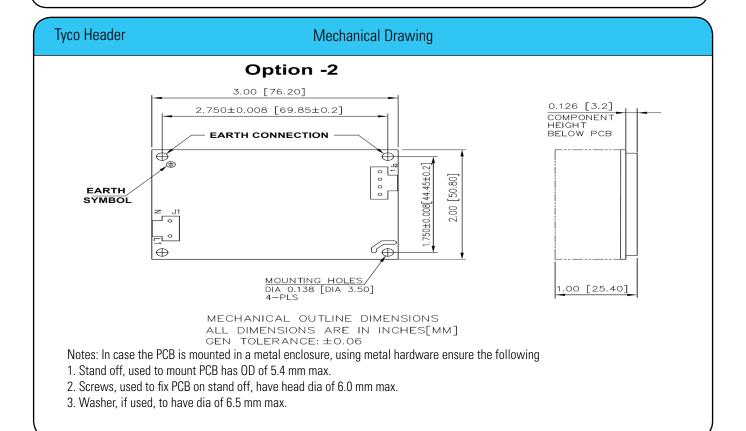
De-rate above 50 °C @ 2.5% per °C

Innovations in Power 39-DE60-49450-002 / A9

Screw Terminal Mechanical Drawing Option -1 3.00 [76.20] 0.126 [3.2] 2.750±0.008 [69.85±0.2] COMPONENT HEIGHT BELOW PCB **EARTH CONNECTION** 4 750±0.008[44.45±0.2] [50.80] **EARTH** SYMBOL 2.00 MOUNTING HOLES/ DIA 0.138 [DIA 3.50] 4-PLS 1.00 [25.40] MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN INCHES[MM] GEN TOLERANCE: ±0.06

Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

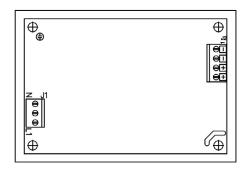
- 1. Stand off, used to mount PCB has OD of 5.4 mm max.
- 2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
- 3. Washer, if used, to have dia of 6.5 mm max.

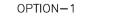


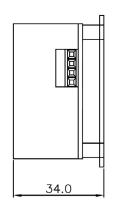
Base Plate

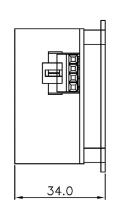
Mechanical Drawing

WLP75 WITH BASE PLATE

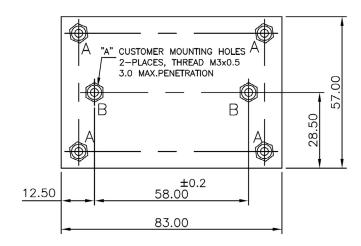








OPTION-2



MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN MM GEN.TOLERANCE:+/-0.5 MM

Notes: In case the PCB is mounted on a metal base plate, using metal hardware ensure the following

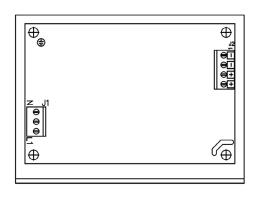
- 1. Stand off, used to mount PCB has OD of 5.4 mm max.
- 2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
- 3. Washer, if used, to have dia of 6.5 mm max.

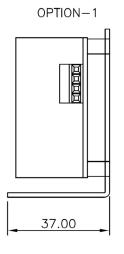


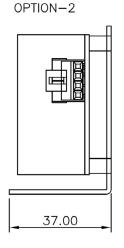
L Bracket

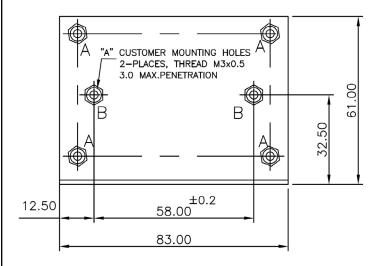
Mechanical Drawing

WLP75 SERIES WITH 'L' BRACKET









MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN MM GEN.TOLERANCE:+/-0.5 MM

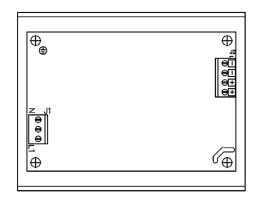
Notes: In case the PCB is mounted on a metal 'L' bracket, using metal hardware ensure the following

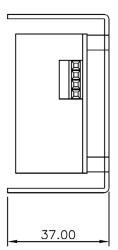
- 1. Stand off, used to mount PCB has OD of 5.4 mm max.
- 2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
- 3. Washer, if used, to have dia of 6.5 mm max.

U Channel

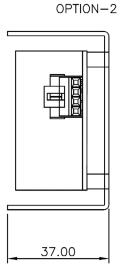
Mechanical Drawing

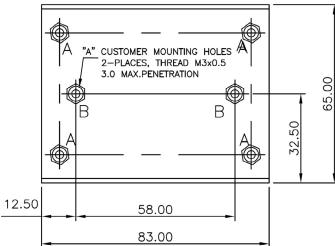
WLP75 SERIES WITH 'U' CHANNEL





OPTION-1





MECHANICAL OUTLINE DIMENSIONS ALL DIMENSIONS ARE IN MM GEN.TOLERANCE:+/-0.5 MM

Notes: In case the PCB is mounted in a metal 'U' channel, using metal hardware ensure the following

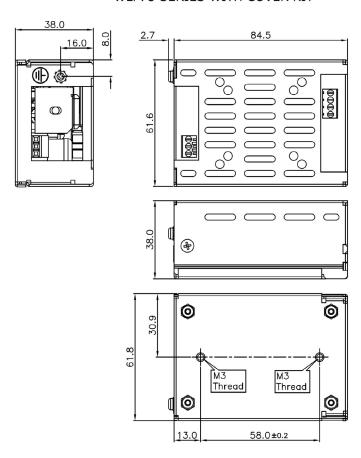
- 1. Stand off, used to mount PCB has OD of 5.4 mm max.
- 2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
- 3. Washer, if used, to have dia of 6.5 mm max.



Cover Kit

Mechanical Drawing

WLP75 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)

Notes: In case the PCB is mounted in a metal cover kit, 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.