



2019-V1.1-0311

# Specifications

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**LED Power Supplies for Outdoor Use**

**LGF-40V Series, 40W**

**PAIRUI ELECTRONICS**

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**2019**

# LED Power Supplies for Outdoor Use

## LGF-40V SERIES, 40WATT, IP67 RATING

### Features

- 5 Year Warranty
- Universal Input Voltage Range: 90~305Vac
- Constant Voltage Output Mode
- High PF up to 0.95
- Rating IP67, Suitable for Outdoor Applications
- All Round Protections: Short Circuit, Over Voltage, Over Current



### Applications

- ✓ Sarchitectural Light
- ✓ Led Strip
- ✓ Led Display
- ✓ Other Light Fixtures for Outdoor Use

### Electrical

Part Number	Output Power	Input Voltage	Output Current	Output Voltage	PF	Efficiency	Certificate
LGFU40-V24	40W	90-305V	0-1.67A	24V	0.9	87%	CE
LGFU40-V36	40W	90-305V	0-1.11A	36V	0.9	89%	CE
LGFU40-V48	40W	90-305V	0-0.83A	48V	0.9	90%	CE

**INPUT**

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=230Vac		0.23		A
Inrush current	Cold start, Vin=230Vac			35	A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac		0.98 0.92		
Leakage current	Vin=230Vac, 50Hz		0.75		mA
Surge voltage	L-N L, N-FG		4 6		KV KV

**OUTPUT**

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output current accuracy			±5		%
Line regulation	Vin from 100Vac to 277Vac			±1	%
Load regulation	Vout from min. to max.			±2	%
Output current overshoot	Turning on			10	%
Turn-on delay time	Cold start, power on			1	S
Ripple	Refer to below note		±5		mAp-p
THD	Output load≥80%		10		%

NOTE: The values are measured at 20MHz of bandwidth by using a 12'' twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor under ambient temperature 25°C at rated input voltage and rated load.

### Protection

Short circuit	In hiccup mode, it will recover automatically after fault condition is removed
Over voltage	110-150% Vout In hiccup mode, it will recover automatically after fault condition is removed
Over current	In hiccup mode, it will recover automatically after fault condition is removed

### Environment

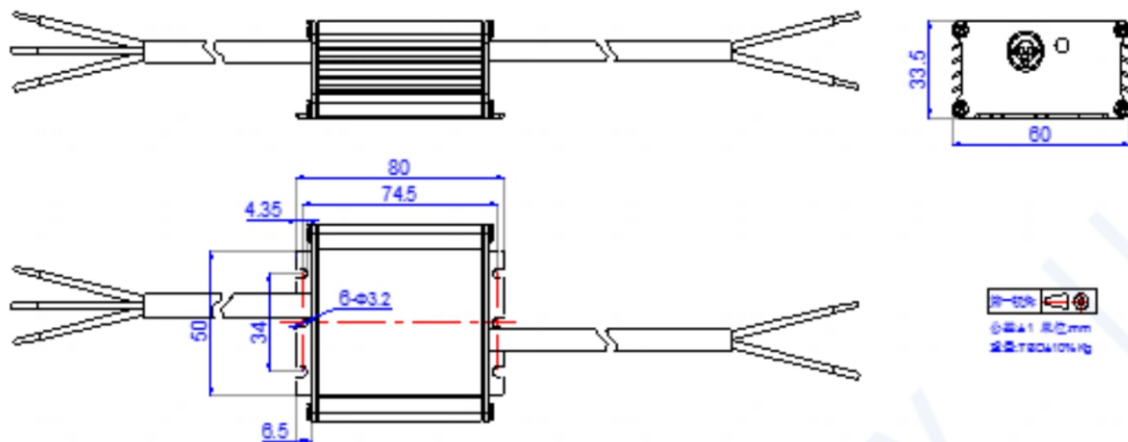
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-40		+70	°C
Operating relative humidity	Non condensing	10		95	%
Storage temperature	Humidity 5 ~ 90% RH	-40		+80	°C
Maximum case temperature	Hot-spot on case			+90	°C
Lifetime	Full load, 220Vac input, 25°C ambient temperature	30			Khrs
Waterproof rating	IP67				
Dimension(LxWxH)	80.0 x 60 x 33.5mm				
Weight	300g				

### Safety/EMC

Safety	Design refer to UL8750, UL935, UL1012, UL1310 Class 2, EN61347, EN61347-2-13
EMC	Compliance to EN55015, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 6, 8, 11, EN61547

NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 277Vac.

## Mechanical



## Electrical Curve

