



2019-V1.1-0311

Specifications

LED Power Supplies for Outdoor Use

LGF-100V Series, 100W

PAIRUI ELECTRONICS

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2019

LED Power Supplies for Outdoor Use

LGF-100V SERIES, 100WATT, 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, Over Temperature



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
LGFU100-V12	100W	90-305V	0-8.3A	12V	0.97	87%	CE
LGFU100-V24	100W	90-305V	0-4.16A	24V	0.97	89%	CE
LGFU100-V36	100W	90-305V	0-2.78A	36V	0.97	89%	CE
LGFU100-V48	100W	90-305V	0-2.08A	48V	0.97	89%	CE

INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=230Vac		0.37		A
Inrush current	Cold start, Vin=230Vac			35	A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac		0.97 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			0.5	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
Over temperature	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 ~ 100% RH	-40		+85	°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)	150.0 x 68.2 x 34.3mm(36V/48V), 180.0 x 68.2 x 34.3mm(12V/24V)				
Weight	620g				

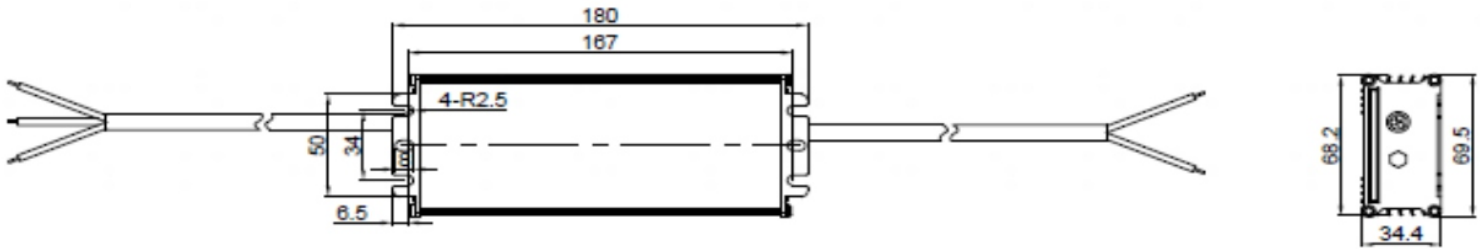
Safety/EMC

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

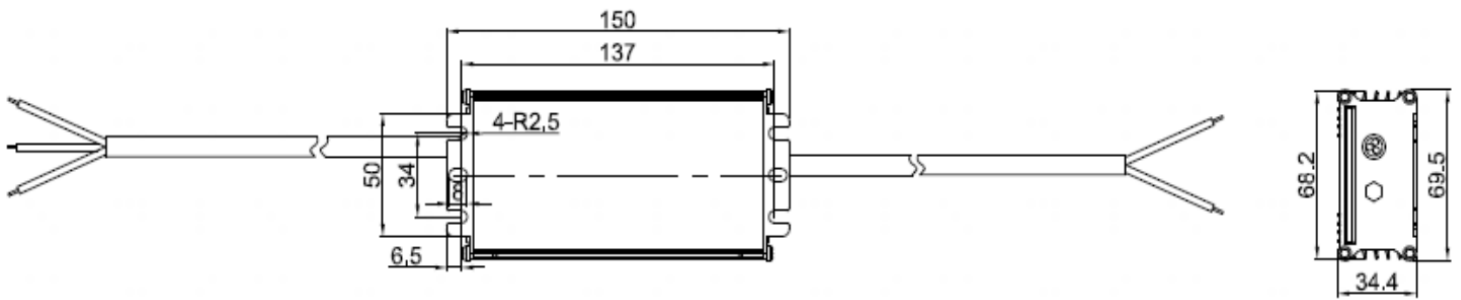
NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 277Vac.

Mechanical

12V/24V:



36V/48V:



Electrical Curve

