



2019-V1.0-0313

# Specifications

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**LED Power Supplies for Outdoor Use**

**LGSU-200C Series, 200W**

**PAIRUI ELECTRONICS**

No. 545 Museum Road  
Yangzhou, Jiangsu  
China 225009

Tel: 86 (514) 8279 1592

Fax: 86 (514) 8769 3159

**2019**

# LED Power Supplies for Outdoor Use

## LGSU-200C SERIES, 200WATT, IP67 RATING

### Features

- 5 Year Warranty
- Universal Input Voltage Range: 90~305Vac
- Constant Current Output Mode
- High PF up to 0.99
- Rating IP67, Suitable for Outdoor Applications
- All Round Protections: Short Circuit, Over Voltage, Over Current, Over Temperature



### Applications

- ✓ Street Light
- ✓ Tunnel Light
- ✓ Flood Light
- ✓ Refrigeration Equipment
- ✓ Other Light Fixtures for Outdoor Use

### Electrical

Part Number	Output Power	Input Voltage	Output Current	Output Voltage	PF	Efficiency	Certificate
LGSU200-C1400	200W	100-277V	1400mA	86-143V	0.96	93%	CE UL
LGSU200-C2100	200W	100-277V	2100mA	58-95V	0.96	93%	CE UL
LGSU200-C2800	200W	100-277V	2800mA	43-72V	0.96	92.5%	CE UL
LGSU200-C3150	200W	100-277V	3150mA	38-64V	0.96	92.5%	CE UL

**NOTE:**

1. Other output models are may available on request;
2. Add suffix "D" for 0-10V dimming.

**INPUT**

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=110Vac Full load, Vin=220Vac		2.1 1		A A
Inrush current	Cold start, Vin=230Vac			65	A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac		0.99 0.96		
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.			3	%
Output current overshoot	Turning on			10	%
Turn-on delay time	Cold start, power on		1		S
Ripple	Please refer to below measurement method		See page 2		mAp-p
THD	Output load≥80%			20	%

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, the driver shall return to normal operation after the power is turn-on again
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

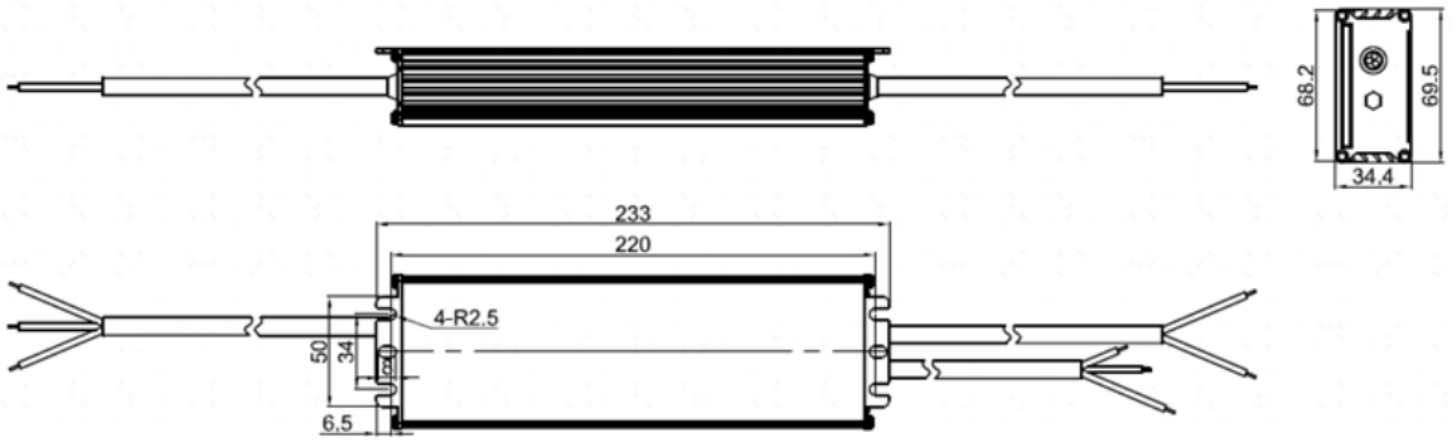
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-40		+70	°C
Operating relative humidity	Non condensing	10		95	%
Storage temperature	Humidity 5 ~ 100% RH	-40		+85	°C
Maximum case temperature	Hot-spot on case			+90	°C
Lifetime	Full load, 220Vac input, 25°C ambient temperature	50			Khrs
Waterproof rating	IP67				
Dimension(LxWxH)	223.0 x 69.5 x 34.4mm				
Weight	990g				

## Safety/EMC

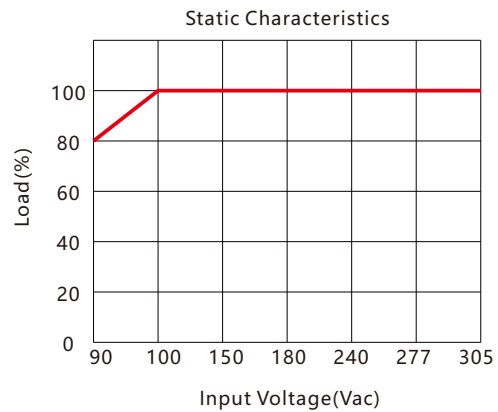
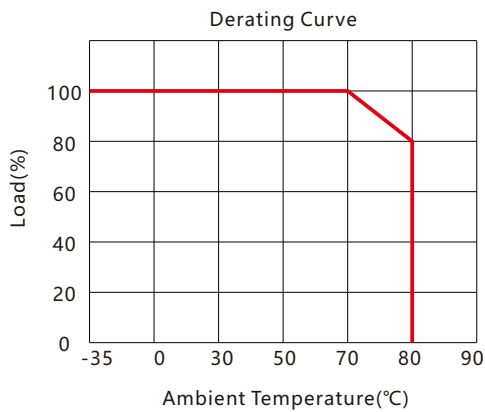
Safety	Design refer to UL8750, UL935, UL1012, UL1310 Class 2, EN61347, EN61347-2-13
EMC	Compliance to EN55015, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 6, 8, 11, EN61547

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

## Mechanical



## Electrical Curve



## Dimming Function

### 0-10V Dimming

