



2019-V1.0-0328

# Specifications

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**Constant Current LED Power Supplies**

**PGAH Series, IP44 12W**

**PAIRUI ELECTRONICS**

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**2019**

# LED Power Supplies for Indoor Use

## PGAH SERIES, 12WATT, IP44 RATING

### Features

- 3 Year Warranty
- High Input Voltage Range: 220~240Vac
- Constant Current Output Mode
- Waterproof Rating IP44
- Built-in Active Power Factor Correction
- Short Circuit, Over Voltage, and Over Current Protections



### Applications

- ✓ Panel Light
- ✓ Cabinet Light
- ✓ Down Light
- ✓ Other Indoor used Lights
- ✓ Recessed Light

## Electrical

Part Number	Rated Power	Input voltage	Output current	Output voltage	PF	Efficiency	Certificate
PGAH012C0200NSLPP2	12W	220-240V	200mA	42-60V	0.5	82%	CCC CE TUV SAA
PGAH012C0250NSLPP2	12W	220-240V	250mA	30-48V	0.5	82%	CCC CE TUV SAA
PGAH012C0300NSLPP2	12W	220-240V	300mA	30-40V	0.5	82%	CCC CE TUV SAA
PGAH012C0350NSLPP2	12W	220-240V	350mA	26-38V	0.5	82%	CCC CE TUV SAA
PGAH012C0400NSLPP2	12W	220-240V	400mA	20-31V	0.5	82%	CCC CE TUV SAA
PGAH012C0500NSLPP2	12W	220-240V	500mA	16-25V	0.5	82%	CCC CE TUV SAA
PGAH012C0600NSLPP2	12W	220-240V	600mA	10-24V	0.5	82%	CCC CE TUV SAA
PGAH012C0700NSLPP2	12W	220-240V	700mA	10-20V	0.5	82%	CCC CE TUV SAA

NOTE: Other output models are may available on request.

## INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input frequency		50		60	Hz
Input current	Full load, Vin=220Vac		0.14		A
Inrush current	Cold start, Vin=220Vac		60		A
Leakage current	Cold start, Vin=220Vac		0.5		mA
Power factor(PF)	Full load, Vin=220Vac		0.5		
Surge voltage	L-N		0.5		KV

**OUTPUT**

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output current accuracy			±5		%
Line regulation	Vin from 220Vac to 240Vac		±5		%
Load regulation	Vout from min. to max.		±5		%
Turn-on delay time	Cold start, power on		0.5		S
Ripple	Please refer to below measuring method		±5%		mAp-p
THD	Full load, Vin=220Vac		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	>95% no load output voltage, it will recover automatically after fault condition is removed
Over current	In hiccup mode, it will recover automatically after fault condition is removed

## Environment

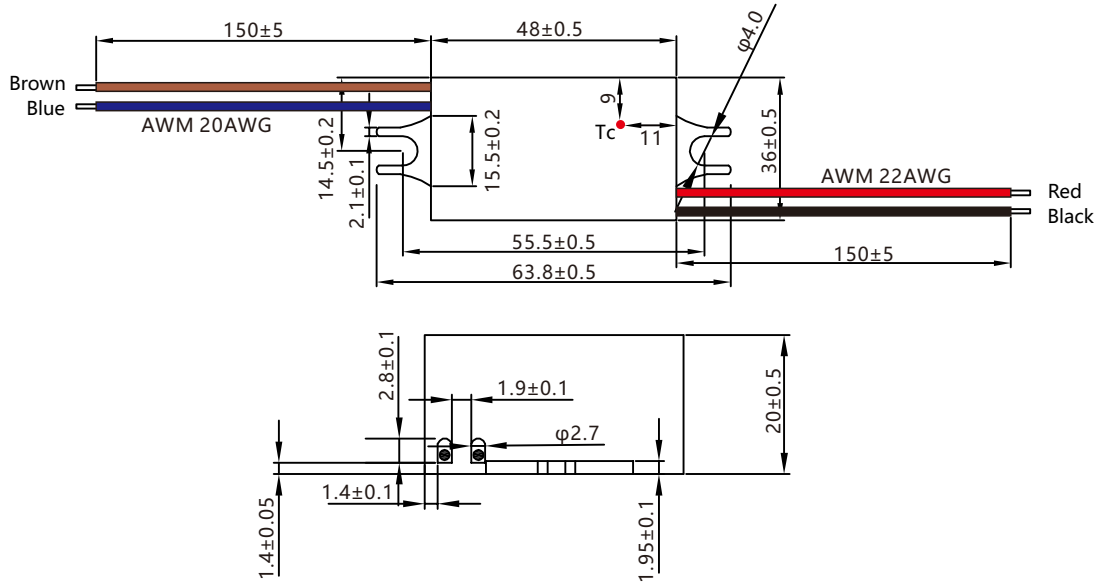
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-20		+45	°C
Operating relative humidity	Non condensing	20		85	%
Storage temperature	Humidity 10 ~ 95% RH	-25		+85	°C
Maximum case temperature	Hot-spot on case			+75	°C
Lifetime	Full load, 25°C ambient temperature	30			Khrs
Waterproof rating	IP44				
Dimension(LxWxH)	48.0 x 36.0 x 20.0mm				

## Safety/EMC

Safety standards	Design refer to EN61347-1, EN61347-2-13, EN60598-1, EN60598-2-6
EMC	Design refer to EN55015, EN61000-4-3, EN61000-3-3

NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=220Vac to 240Vac.

## Mechanical



Unit: mm

## Electrical Curve

