



2019-V1.0-0328

Specifications

Constant Current LED Power Supplies

PIAH Series, IP20 12W

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 Indoor Use

PIAH SERIES, 12WATT, IP20 RATING

Features

- 3 Year Warranty
- High Input Voltage Range: 220~240Vac
- Constant Current Output Mode
- Waterproof Rating IP20
- 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
PIAH012C0200NSLPP2	12W	220-240V	200mA	42-60V	0.5	82%	CCC CE TUV SAA
PIAH012C0250NSLPP2	12W	220-240V	250mA	30-48V	0.5	82%	CCC CE TUV SAA
PIAH012C0300NSLPP2	12W	220-240V	300mA	30-40V	0.5	82%	CCC CE TUV SAA
PIAH012C0350NSLPP2	12W	220-240V	350mA	26-38V	0.5	82%	CCC CE TUV SAA
PIAH012C0400NSLPP2	12W	220-240V	400mA	20-31V	0.5	82%	CCC CE TUV SAA
PIAH012C0500NSLPP2	12W	220-240V	500mA	16-25V	0.5	82%	CCC CE TUV SAA
PIAH012C0600NSLPP2	12W	220-240V	600mA	10-24V	0.5	82%	CCC CE TUV SAA
PIAH012C0700NSLPP2	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

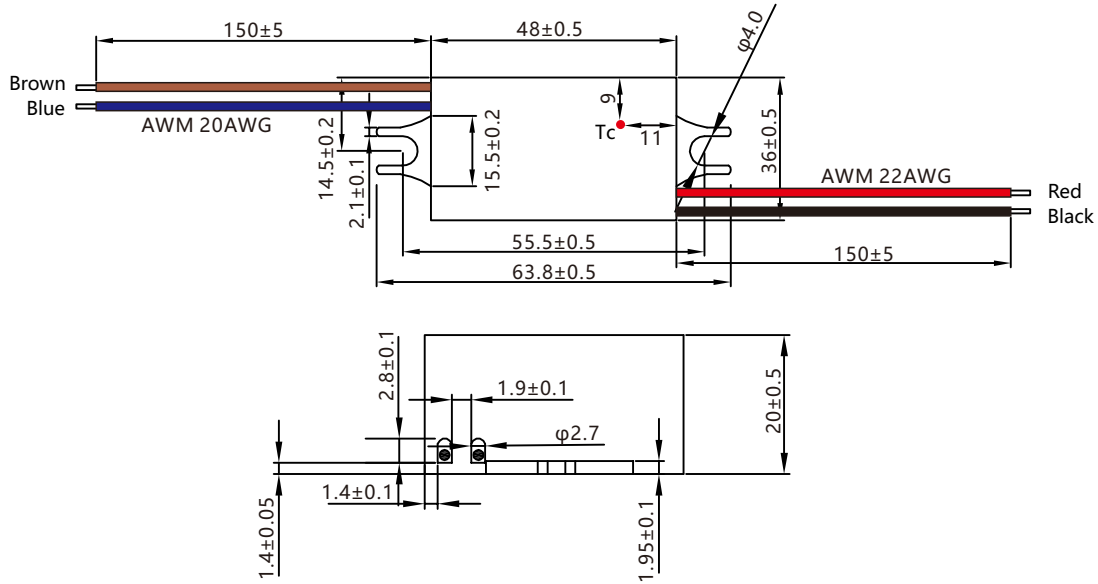
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-20		+45	°C
Operating relative humidity	Non condensing	20		85	%
Storage temperature	Humidity 10 ~ 95% RH	-25		+85	°C
Maximum case temperature	Hot-spot on case			+75	°C
Lifetime	Full load, 25°C ambient temperature	30			Khrs
Waterproof rating	Ip20				
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

