



2019-V1.1-0315

Specifications

**Constant Current LED Power Supplies
PEBW Series, 30~45W**

2019

PAIRUI ELECTRONICS

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LED Power Supplies for Indoor Use

PEBW SERIES, 30~45WATT, IP20 RATING

Features

- 3 Year Warranty
- Wide Input Voltage Range: 100~240Vac
- Constant Current Output Mode
- Waterproof Rating IP20
- Built-in Active Power Factor Correction
- Short Circuit, Over Voltage, and Over Current Protections
- Class II Power, no FG



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
PEBW030C0650NSFPA3	30W	100-240V	650mA	27-42V	0.95	86%	CE
PEBW030C0700NSFPA3	30W	100-240V	700mA	27-42V	0.95	86%	CE
PEBW035C0750NSFPA3	35W	100-240V	750mA	27-42V	0.95	86%	CE
PEBW035C0800NSFPA3	35W	100-240V	800mA	27-42V	0.95	86%	CE
PEBW040C0850NSFPA3	40W	100-240V	850mA	27-42V	0.95	86%	CE
PEBW040C0900NSFPA3	40W	100-240V	900mA	27-42V	0.95	86%	CE
PEBW040C0950NSFPA3	40W	100-240V	950mA	27-42V	0.95	86%	CE
PEBW045C0950NSFPA3	45W	100-240V	950mA	30-45V	0.95	86%	CE
PEBW045C1000NSFPA3	45W	100-240V	1000mA	27-42V	0.95	86%	CE
PEBW045C1050NSFPA3	45W	100-240V	1050mA	27-42V	0.95	86%	CE

Part Number	Rated Power	Input voltage	Output current	Output voltage	PF	Efficiency	Certificate
PEBW030C0650NSRPA3	30W	100-240V	650mA	27-42V	0.95	88%	CE
PEBW030C0700NSRPA3	30W	100-240V	700mA	27-42V	0.95	88%	CE
PEBW035C0750NSRPA3	35W	100-240V	750mA	27-42V	0.95	88%	CE
PEBW035C0750NSRPA3	35W	100-240V	800mA	27-42V	0.95	88%	CE
PEBW040C0850NSRPA3	40W	100-240V	850mA	27-42V	0.95	88%	CE
PEBW040C0900NSRPA3	40W	100-240V	900mA	27-42V	0.95	88%	CE
PEBW040C0950NSRPA3	40W	100-240V	950mA	27-42V	0.95	88%	CE
PEBW045C0950NSFPA3	45W	220-240V	950mA	30-45V	0.95	86%	CE
PEBW045C1000NSRPA3	45W	100-240V	1000mA	27-42V	0.95	88%	CE
PEBW045C1050NSRPA3	45W	100-240V	1050mA	27-42V	0.95	88%	CE

NOTE:

1. Other output models are may available on request;
2. PEBW030C0650NSFPA3,F:ripple=±30% R:ripple=±5%.

INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input frequency		47		63	Hz
Input current	Full load, Vin=110Vac Full load, Vin=220Vac		0.6 0.3		A A
Inrush current	Cold start, Vin=230Vac		30		A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac		0.97 0.95		
Efficiency (High ripple version)	Full load, Vin=110Vac Full load, Vin=220Vac		86 88		% %
Efficiency (Low ripple version)	Full load, Vin=110Vac Full load, Vin=220Vac		84 86		% %
Surge voltage	L-N		2		KV

OUTPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output current accuracy			±5		%
Line regulation	Vin from 100Vac to 240Vac		±5		%
Load regulation	Vout from min. to max.		±5		%
Output current overshoot	Turning on		10		%
Turn-on delay time	Cold start, power on		1		S
Ripple	Please refer to below measuring method		See page 2		mAp-p
THD	Full load, Vin=220Vac		15		%

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, it will recover automatically after fault condition is removed
Over current	In hiccup mode, it will recover automatically after fault condition is removed

Environment

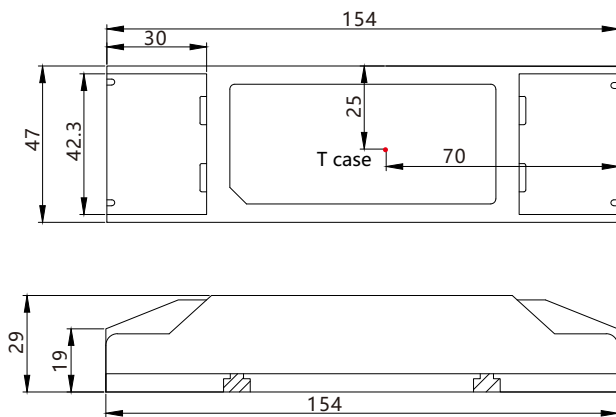
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-35		+50	°C
Operating relative humidity	Non condensing	20		90	%
Storage temperature	Humidity 10 ~ 95% RH	-40		+80	°C
Maximum case temperature	Hot-spot on case			+90	°C
Lifetime	Full load, 220Vac input, 25°C ambient temperature	30			Khrs
Waterproof rating	IP20				
Dimension(LxWxH)	154.0 x 47.0 x 29.0mm				
Weight	180g				

Safety/EMC

Safety	Design refer to EN61347-1, EN61347-2-13
EMC	Compliance to EN55015, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547

NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 240Vac.

Mechanical



Unit: mm

Electrical Curve

