

PU012 Series - Constant Voltage Output

Features

- Input voltage range: 90-305VAC
- High efficiency: 85% typical
- Active PFC: 0.97 typical
- IP66 compliant
- Protections: OVP, OCP, SCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CE
- 5-year warranty



85 × 36 × 23mm

Electrical Specifications

Input voltage range	90~305VAC
Frequency	47~63Hz
Power factor	0.97 at 110VAC; 0.94 at 220VAC (typical)
Inrush current	15A MAX (25°C at 220VAC, cold start)
Input current	0.18A MAX at 110VAC; 0.1A MAX at 220VAC
Efficiency	85% (typical) at 220VAC maximum load
Maximum power	12W
Line regulation	± 3%
Load regulation	± 3%
Leakage current	0.3mA MAX
Hold-up time	Half cycle
Protections	Over voltage, over current, short circuit

Environmental Specifications

Operating temperature	-30°C ~ +60°C
Storage temperature	-40°C ~ +85°C
Maximum case temperature	90°C
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3750VAC
Vibration	5-55Hz/2g, 30minutes
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours at 50°C ambient
Reference dimension (L × W × H)	85 × 36 × 23 (mm)

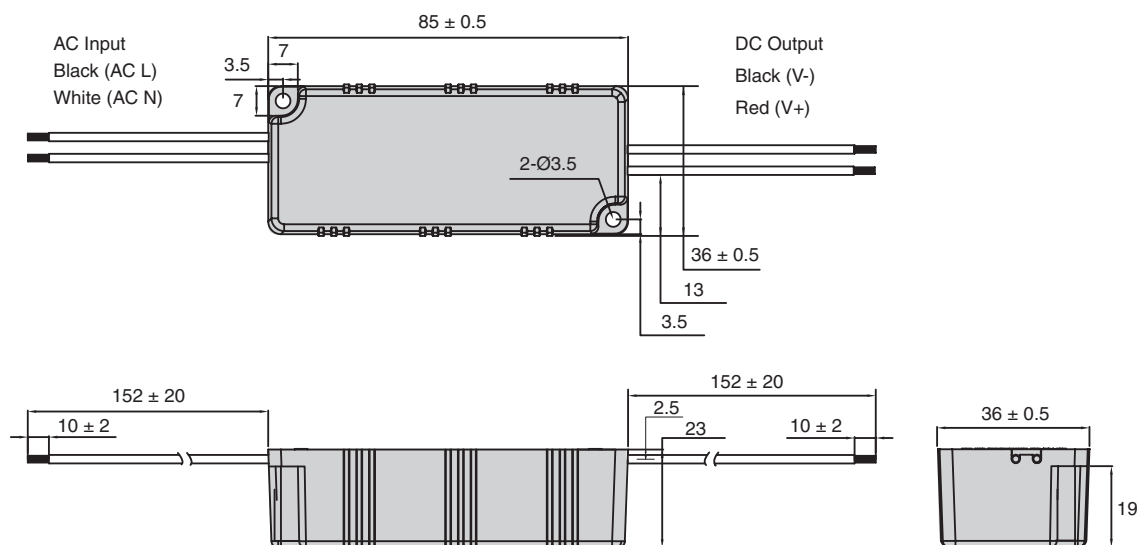
Safety & EMC Compliance

CUL	UL8750, UL935, UL1012, UL1310, CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 Class B / EN55015
Radiated emissions	FCC Part15 Class B / EN55015
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	EN61000-4-3
Electrical fast transient	EN61000-4-4
Surge immunity test	EN61547 (Surge L-N 1KV)
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

Model Specifications - constant voltage

Part Number	Output Voltage	MAX Output Current	Voltage Accuracy	Efficiency (typical)	
				110VAC	220VAC
PU012A048AP	48VDC	250mA	± 5%	85%	85%
PU012A036AP	36VDC	350mA	± 5%	84%	84%
PU012A024AP	24VDC	500mA	± 5%	83%	83%
PU012A016AP	16VDC	800mA	± 5%	82%	82%
PU012A012AP	12VDC	1000mA	± 5%	80%	80%

Mechanical Outline (unit: mm)



Numbering System

Quick Selection

LED Driver
- General Series
- Outdoor Use
- H SeriesLED Driver
- General Series
- Outdoor Use
- Half Potted SeriesLED Driver
- General Series
- Outdoor Use
- A SeriesLED Driver
- General Series
- Outdoor Use
- Other SeriesLED Driver
- Intelligent Series
- 30W Intelligent SeriesLED Driver
- Intelligent Series
- 40W Intelligent SeriesLED Driver
- Intelligent Series
- 50W Intelligent SeriesLED Driver
- Intelligent Series
- 60W Intelligent SeriesLED Driver
- Intelligent Series
- Other SeriesGeneral Power Supplies
- MP Series

SPD

Appendix