

PU012 Series - Constant Current/Voltage Output

Features

- Input voltage range: 90-305VAC
- High efficiency: 85% typical
- Active PFC: 0.97 typical
- IP66 compliant
- Protections: OVP, OCP, SCP
- Comply with UL8750, UL1310, IEC61347-1, IEC61347-2-13
- UL / 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% ~ 100%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 / EN55015 Class B
Radiated emissions	FCC Part15 / EN55015 Class B
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
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

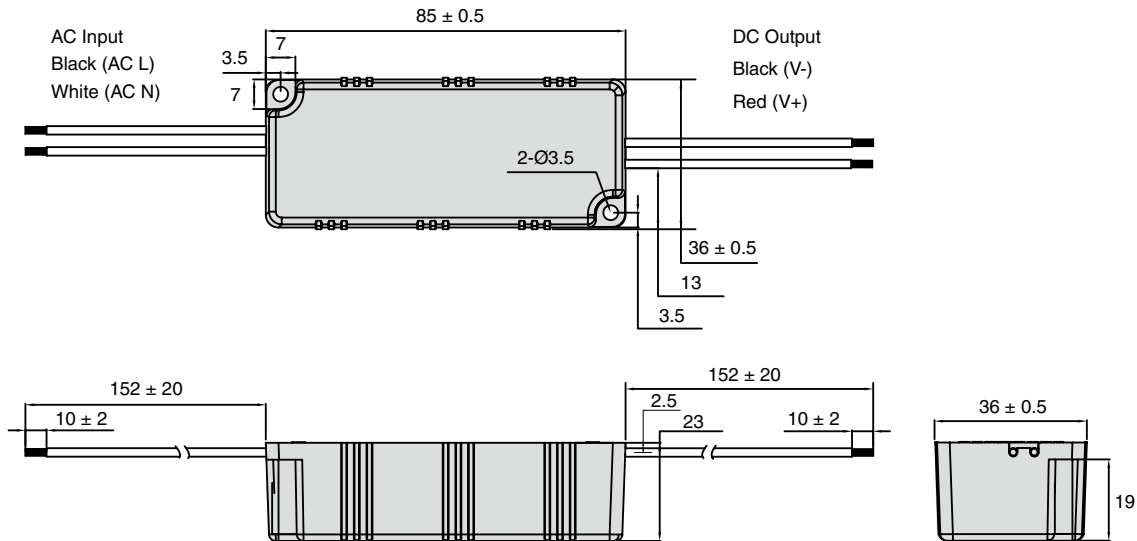
Model Specifications - constant current

Part Number	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110VAC	220VAC
PU012A025AQ	250mA	24-48VDC	± 3%	85%	85%
PU012A030AQ	300mA	18-36VDC	± 3%	83%	83%
PU012A035AQ	350mA	18-36VDC	± 3%	84%	84%
PU012A050AQ	500mA	12-24VDC	± 3%	83%	83%
PU012A070AQ	700mA	8-16VDC	± 3%	81%	81%
PU012A080AQ	800mA	8-16VDC	± 3%	82%	82%
PU012A100AQ	1000mA	6-12VDC	± 3%	80%	80%

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
systemLED
driver
- Outdoor
- PU seriesLED
driver
- Outdoor
- MU seriesLED
driver
- Outdoor
- Other seriesLED
driver
- IndoorLED
driver
- Intelligent seriesgeneral
power supplies
- MF seriesgeneral
power supplies
- MS series