

PU012H Series

Features

- Input voltage: 90-305VAC
- High efficiency: 88% typical
- Active PFC: 0.99 typical
- Surge protection
- IP66 compliant
- Protections: OVP, OCP, SCP
- Constant Current
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



85 x 36 x 23mm

Electrical Specifications

Input voltage range	90~305VAC
Frequency	47~63Hz
Power factor	0.99 at 120VAC/60Hz, 0.97 at 230VAC/50Hz (typical)
Input current	0.2 at 100VAC input, full load
Inrush current	15A at 230VAC input, 25°C cold start
Leakage current	0.5mA MAX at 277Vac/60Hz input
Maximum output power	12W
Line regulation	± 5%
Load regulation	± 5%
Start-up time	<1.2s at 120VAC, <1s at 220VAC
Protections	over voltage, over current, short circuit: auto recovery

Environmental Specifications

Operating temperature	-40°C ~ +60°C
Operating humidity	10 ~ 95%RH
Storage temperature	-40°C ~ +80°C
Storage humidity	5 ~ 95% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	85 x 36 x 23 (mm)
Weight	0.1 kg

Safety & EMC Compliance

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91
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
Surge immunity test	EN61000-4-5
Conducted radio frequency	EN61000-4-6
Power frequency magnetic field test	EN61000-4-8
Voltage dips	EN61000-4-11
Electromagnetic immunity	EN61547

Constant Current — Model Specifications

Model	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110Vac	220Vac
PU012H025AQ	250mA	24-48VDC	± 6%	86.0%	87.0%
PU012H030AQ	300mA	18-36VDC	± 6%	86.0%	87.0%
PU012H035AQ	350mA	18-36VDC	± 5%	85.0%	86.0%
PU012H045AQ	450mA	13-27VDC	± 5%	82.0%	83.0%
PU012H070AQ	700mA	8-17VDC	± 5%	81.0%	82.0%
PU012H100AQ	1000mA	6-12VDC	± 5%	81.0%	82.0%

Mechanical Outline (unit: mm)

