

PU012H Series

Features

- Input voltage: 90-305VAC
- High efficiency: 86% 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
- 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 | 0.2A 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 ~ +85°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 |

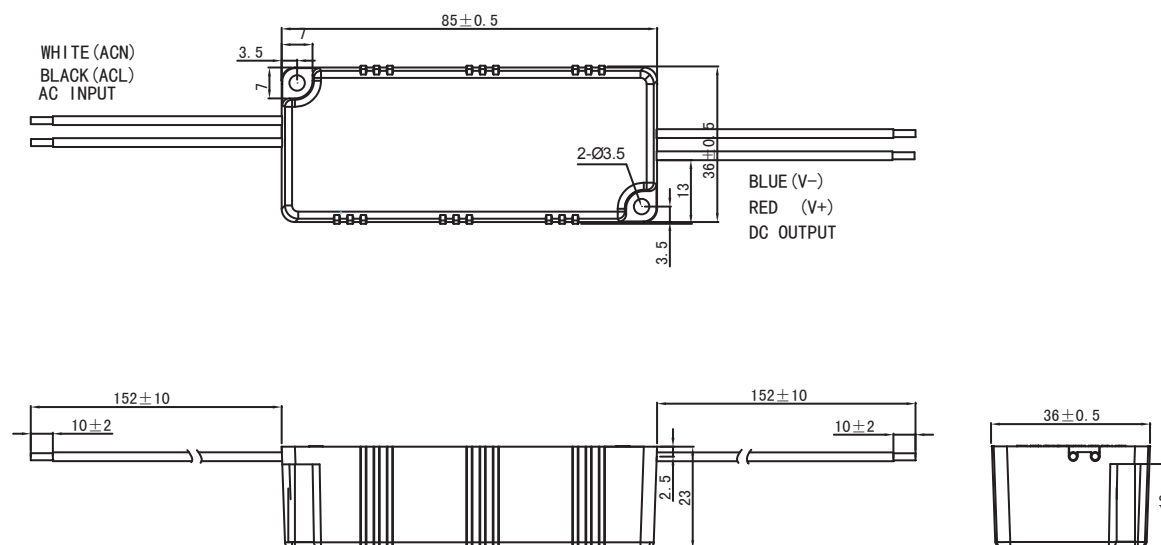
Safety & EMC Compliance

| | |
|-------------------------------------|--|
| CUL | UL8750, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91 |
| 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 | EN61000-4-5 Level 4 (Line to Neutral: ± 2kV) |
| 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% | 85.0% | 86.0% |
| PU012H030AQ | 300mA | 18-36VDC | ± 6% | 84.0% | 85.0% |
| PU012H035AQ | 350mA | 18-36VDC | ± 6% | 84.0% | 85.0% |
| PU012H045AQ | 450mA | 13-27VDC | ± 5% | 83.0% | 84.0% |
| PU012H070AQ | 700mA | 8-17VDC | ± 5% | 82.0% | 83.0% |
| PU012H100AQ | 1000mA | 6-12VDC | ± 5% | 80.0% | 81.0% |

■ Mechanical Outline (unit: mm)

Numbering
SystemQuick
SelectionLED 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