

PU025H 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 / 0-10V Dimming
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



80 x 78 x 27mm

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	0.4 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	25W
Line regulation	± 3%
Load regulation	± 3%
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	10 ~ 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)	80 x 78 x 27 (mm)
Weight	0.18 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

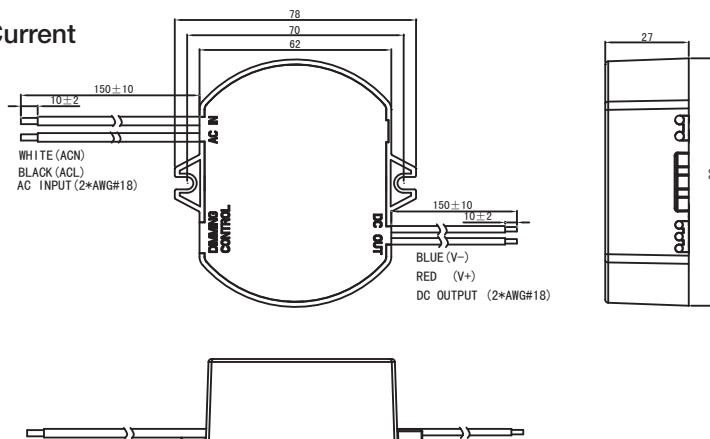
Model	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110Vac	220Vac
PU025H035AQ	350mA	36-72VDC	± 5%	88.0%	89.0%
PU025H045AQ	450mA	28-55VDC	± 5%	87.0%	88.0%
PU025H070AQ	700mA	18-36VDC	± 5%	86.0%	87.0%
PU025H105AQ	1050mA	12-24VDC	± 5%	85.0%	86.0%
PU025H120AQ	1200mA	10-21VDC	± 5%	84.0%	85.0%
PU025H140AQ	1400mA	9-18VDC	± 5%	83.0%	84.0%
PU025H175AQ	1750mA	7-14VDC	± 5%	82.0%	83.0%
PU025H210AQ	2100mA	6-12VDC	± 5%	81.0%	82.0%

0-10V Dimming — Model Specifications

Model	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110Vac	220Vac
PU025H035AQ_0-10V	350mA	36-72VDC	± 5%	87.0%	88.0%
PU025H045AQ_0-10V	450mA	28-55VDC	± 5%	86.0%	87.0%
PU025H070AQ_0-10V	700mA	18-36VDC	± 5%	85.0%	86.0%
PU025H105AQ_0-10V	1050mA	12-24VDC	± 5%	84.0%	85.0%
PU025H120AQ_0-10V	1200mA	10-21VDC	± 5%	83.0%	84.0%
PU025H140AQ_0-10V	1400mA	9-18VDC	± 5%	82.0%	83.0%
PU025H175AQ_0-10V	1750mA	7-14VDC	± 5%	81.0%	82.0%
PU025H210AQ_0-10V	2100mA	6-12VDC	± 5%	80.0%	81.0%

Mechanical Outline (unit: mm)

Constant Current



0-10V Dimming

