

PU040H Series

Features

- Input voltage: 90-305VAC
- High efficiency: 90% typical
- Active PFC: 0.99 typical
- Surge protection
- IP66 compliant
- Protections: OVP, OCP, OTP, SCP
- Constant Current / 0-10V Dimming
- Compliance to worldwide safety regulations for lighting
- Suitable for dry /damp locations
- CUL / CE / ENEC
- 5-year warranty



95 x 70x 32mm

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	0.6A 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	40W
Line regulation	± 3%
Load regulation	± 3%
Start-up time	<1.2s at 120VAC, <1s at 220VAC
Protections	over voltage, over current, over temperature, short circuit: auto recovery

Environmental Specifications

Operating temperature	-40°C ~ +60°C
Operating humidity	20% ~ 95% RH
Storage temperature	-40°C ~ +85°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)	95 x 70 x 32 (mm)
Weight	0.3 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 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 3 (Line to Neutral: ± 1kV)
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
PU040H035AQ	350mA	57-114VDC	± 5%	90.0%	91.0%
PU040H045AQ	450mA	44-89VDC	± 5%	89.5%	90.5%
PU040H070AQ	700mA	28-54VDC	± 5%	89.0%	90.0%
PU040H105AQ	1050mA	19-37VDC	± 5%	88.0%	89.0%
PU040H140AQ	1400mA	14-29VDC	± 5%	88.0%	89.0%
PU040H175AQ	1750mA	11-23VDC	± 5%	87.0%	88.0%
PU040H210AQ	2100mA	9-19VDC	± 5%	85.5%	86.5%
PU040H245AQ	2450mA	8-16VDC	± 5%	84.0%	85.0%
PU040H280AQ	2800mA	7-14VDC	± 5%	83.5%	85.0%
PU040H315AQ	3150mA	6-12VDC	± 5%	82.5%	84.0%

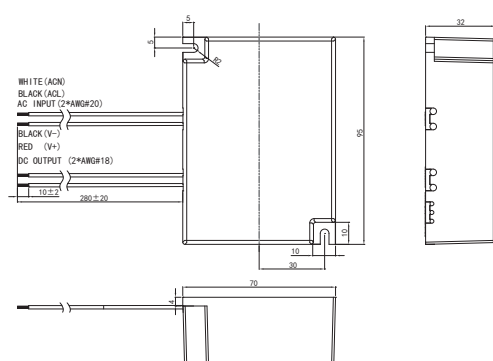
■ 0-10V Dimming — Model Specifications

Model	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110Vac	220Vac
PU040H035AQ_0-10V	350mA	57-114VDC	± 5%	89.0%	90.0%
PU040H045AQ_0-10V	450mA	44-89VDC	± 5%	88.5%	89.5%
PU040H070AQ_0-10V	700mA	28-54VDC	± 5%	87.5%	88.5%
PU040H105AQ_0-10V	1050mA	19-37VDC	± 5%	87.0%	88.0%
PU040H140AQ_0-10V	1400mA	14-29VDC	± 5%	86.5%	87.5%
PU040H175AQ_0-10V	1750mA	11-23VDC	± 5%	85.0%	86.0%
PU040H210AQ_0-10V	2100mA	9-19VDC	± 5%	84.0%	85.0%
PU040H245AQ_0-10V	2450mA	8-16VDC	± 5%	83.5%	84.5%
PU040H280AQ_0-10V	2800mA	7-14VDC	± 5%	82.5%	84.0%
PU040H315AQ_0-10V	3150mA	6-12VDC	± 5%	81.5%	83.0%

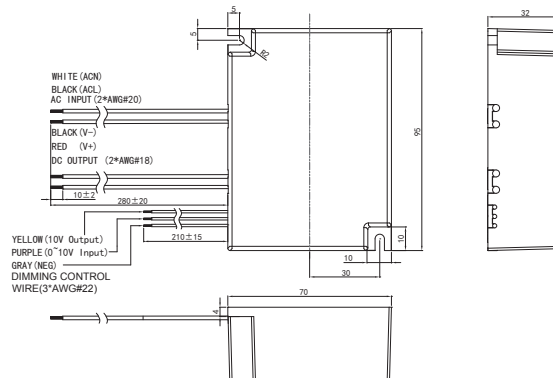
Remarks: The function instruction can be found in the Appendix Page 153.

■ Mechanical Outline (unit: mm)

Constant Current



0-10V Dimming



Numbering
System

Quick
Selection

LED Driver
- General Series
- Outdoor Use
- H Series

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Outdoor Use
- A Series

LED Driver
- General Series
- Outdoor Use
- Other Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 40W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- Other Series

General
Power Supplies
- M Series

SPD

Appendix