

# PU040 Series - Constant Current/Voltage Output & Dimming Control

## Features

- Input voltage range: 90-305VAC
- High efficiency: 88% typical
- Active PFC: 0.97 typical
- IP66 compliant
- Protections: OVP, OCP, SCP
- Comply with UL8750, UL1310, IEC61347-1, IEC61347-2-13
- UL / CE
- Dimming control: 0 ~ 10VDC
- 5-year warranty



95 × 70 × 32mm

## Electrical Specifications

Input voltage range	90-305 VAC
Frequency	47~63Hz
Power factor	0.97 at 110VAC; 0.92 at 220VAC (typical)
Inrush current	15A MAX (25°C at 220VAC, cold start)
Input current	0.5A MAX at 110VAC; 0.25A MAX at 220VAC
Efficiency	88% (typical) at 220VAC maximum load
Maximum power	40W
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)	95 × 70 × 32 (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
PU040A035AQ	350mA	38-114VDC	± 5%	87%	88%
PU040A045AQ	450mA	30-89VDC	± 5%	87%	88%
PU040A070AQ	700mA	18-54VDC	± 5%	86%	87%
PU040A090AQ	900mA	18-45VDC	± 5%	86%	87%
PU040A105AQ	1050mA	12-36VDC	± 5%	86%	87%
PU040A120AQ	1200mA	11-33VDC	± 5%	86%	87%
PU040A140AQ	1400mA	10-29VDC	± 5%	86%	87%
PU040A166AQ	1660mA	8-24VDC	± 5%	85%	86%
PU040A182AQ	1820mA	12-22VDC	± 5%	85%	86%
PU040A200AQ	2000mA	10-20VDC	± 5%	84%	85%
PU040A222AQ	2220mA	6-18VDC	± 5%	84%	85%
PU040A333AQ	3330mA	4-12VDC	± 5%	83%	84%

## Model Specifications - constant voltage

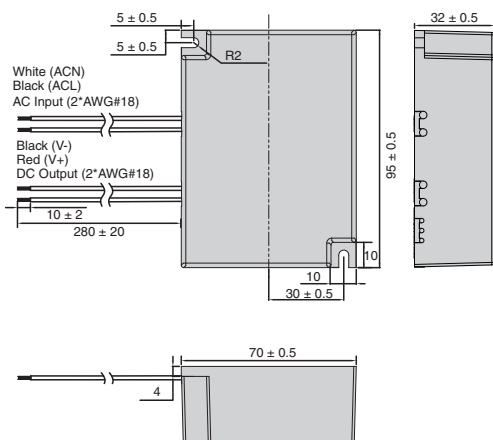
Part Number	Output Voltage	MAX Output Current	Voltage Accuracy	Efficiency (typical)	
				110VAC	220VAC
PU040A048AP	48VDC	830mA	± 5%	86%	87%
PU040A036AP	36VDC	1100mA	± 5%	86%	87%
PU040A024AP	24VDC	1670mA	± 5%	85%	86%
PU040A018AP	18VDC	2220mA	± 5%	84%	85%
PU040A012AP	12VDC	3330mA	± 5%	83%	84%
PU040A009AP	9VDC	4450mA	± 5%	82%	83%

## Model Specifications - dimming control (0~10V)

Part Number	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110VAC	220VAC
PU040A035AQD	350mA	38-114VDC	± 5%	87%	88%
PU040A045AQD	450mA	30-89VDC	± 5%	87%	88%
PU040A070AQD	700mA	18-54VDC	± 5%	86%	87%
PU040A090AQD	900mA	18-45VDC	± 5%	86%	87%
PU040A105AQD	1050mA	12-36VDC	± 5%	86%	87%
PU040A120AQD	1200mA	11-33VDC	± 5%	86%	87%
PU040A140AQD	1400mA	10-29VDC	± 5%	86%	87%
PU040A166AQD	1660mA	8-24VDC	± 5%	85%	86%
PU040A182AQD	1820mA	12-22VDC	± 5%	85%	86%
PU040A200AQD	2000mA	10-20VDC	± 5%	84%	85%
PU040A222AQD	2220mA	6-18VDC	± 5%	84%	85%
PU040A333AQD	3330mA	4-12VDC	± 5%	83%	84%

## Mechanical Outline (unit: mm)

### Constant Current/Voltage Output



### Constant Current with Dimming Control

