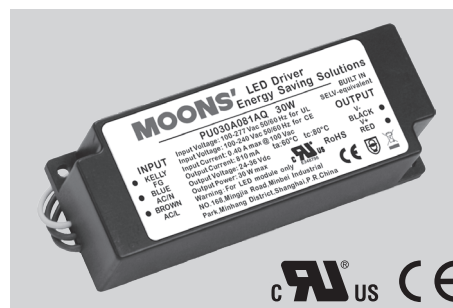


# PU030A Series - Constant Current Output & Dimming Control

## Features

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



120 x 46 x 30mm

## Electrical Specifications

Input voltage range	90~305 VAC
Frequency	47~63 Hz
Power factor	0.99 at 110 VAC; 0.97 at 220 VAC (typical)
Inrush current	15A Max (at 220 VAC, 25°C, cold start)
Input current	0.4A Max at 100VAC
Efficiency	87% (typical) at 110 VAC maximum load, 88% (typical) at 220 VAC maximum load
Maximum power	30W
Turn on delay	< 1.5S at 220VAC maximum load, < 3S at 110VAC maximum load
Leakage current	0.75mA Max
Protections	Over Voltage, Short Circuit

## Environmental Specifications

Operating temperature	-35°C ~ +60°C
Storage temperature	-40°C ~ +85°C
Operating humidity	20% ~ 95%RH
Storage humidity	10% ~ 95%RH
Cooling method	Convection
MTBF	300,000 hours at full load and 25°C ambient
Life time	50,000 hours at 40°C ambient
Reference dimension(L x W x H)	120 x 46 x 30 (mm)

## Safety & EMC Compliance

CUL	UL8750
CE	EN61347-1, EN61347-2-13
Conducted Emissions	FCC Part15 Class B / EN55015
Radiated Emissions	FCC Part15 Class B / EN55015
Harmonic Current Emissions	EN61000-3-2
Electrostatic Discharge	EN61000-4-2
Surge Immunity Test	EN61000-4-5, L-Earth: ± 4kV; N-Earth: ± 4kV; L-N: ± 2kV

## Model Specifications - constant current

Part Number	Output Power	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)		Output Current Adj. Range*1
					110VAC	220VAC	
PU030A070AQ	30W	700mA	24-42VDC	± 5%	87%	88%	unadjustable
PU030A081AQ	30W	1000mA	24-36VDC	± 5%	87%	88%	270-1150mA
PU040A140AQ1	40W	1400mA	16-31VDC	± 5%	88%	89%	unadjustable

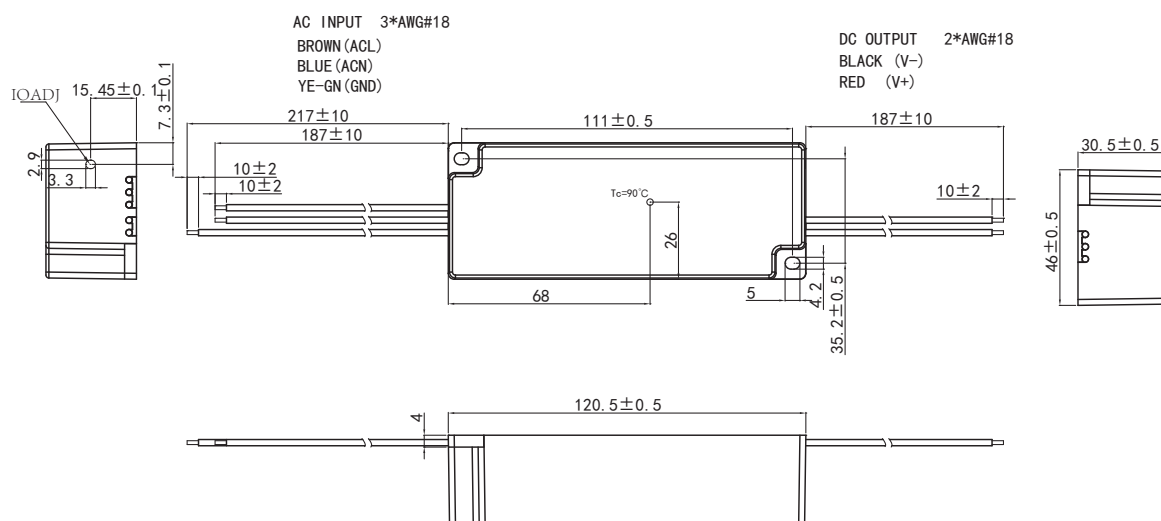
\*1: Current can be set by adjusting the potentiometer, the maximum output power can not exceed 30W.

## Model Specifications - Dimming Control (0-10V)

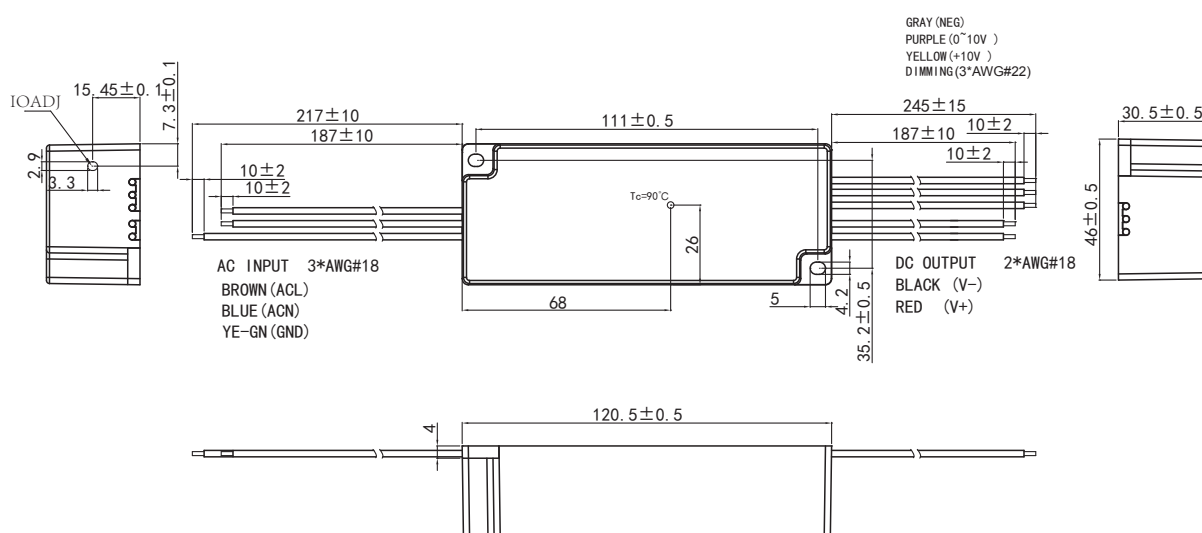
Part Number	Output Power	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
					110VAC	220VAC
PU030A081AQD	30W	1000mA	24-36VDC	± 5%	87%	88%

## Mechanical Outline (unit:mm)

### Constant Current



### Constant Current with Dimming Control (0~10V)



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  
- 30W Intelligent Series

LED Driver  
- Intelligent Series  
- 40W Intelligent Series

LED Driver  
- Intelligent Series  
- 50W Intelligent Series

LED Driver  
- Intelligent Series  
- 60W Intelligent Series

LED Driver  
- Other Series

General Power Supplies  
- MP Series

SPD

Appendix