

# UU060A Series - Constant Current Output & Dimming Control

## Features

- Input voltage range 90-305VAC
- High efficiency: 89% typical
- Active PFC: 0.99 typical
- Surge protection
- Support 0-10V dimming
- Protections: OVP, OTP, SCP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL / CE
- 5-year warranty



140 × 71 × 35mm

## 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 230 VAC, 25°C, cold start)
Input current	0.8A Max at 100VAC, 0.4A Max at 220Vac
Efficiency	88% (typical) at 110 VAC maximum load, 89% (typical) at 220 VAC maximum load
Maximum power	60W
Turn on delay	< 1.5S at 220VAC maximum load, < 3S at 110VAC maximum load
Leakage current	0.75mA Max (277VAC 50Hz input)
Protections	Over Voltage, Over Temperature, Short Circuit


## Environmental Specifications

Operating temperature	-35°C ~ +60°C
Storage temperature	-40°C ~ +80°C
Operating humidity	20% ~ 90%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 × W × H)	140 x 71 x 35 (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
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, L-Earth: ± 4kV; N-Earth: ± 4kV; L-N: ± 2kV
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 Power	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)		Output Current Adj. Range*1
					110VAC	220VAC	
UU060A075AQ	60W	750mA	48-72VDC	± 5%	89%	90%	350-900mA
UU060A160AQ		1600mA	24-40VDC	± 5%	89%	90%	500-1900mA
 UU060A190AQ		1900mA	24-36VDC	± 5%	89%	90%	1000-2200mA
UU060A220AQ		2200mA	18-36VDC	± 5%	89%	90%	1000-2200mA

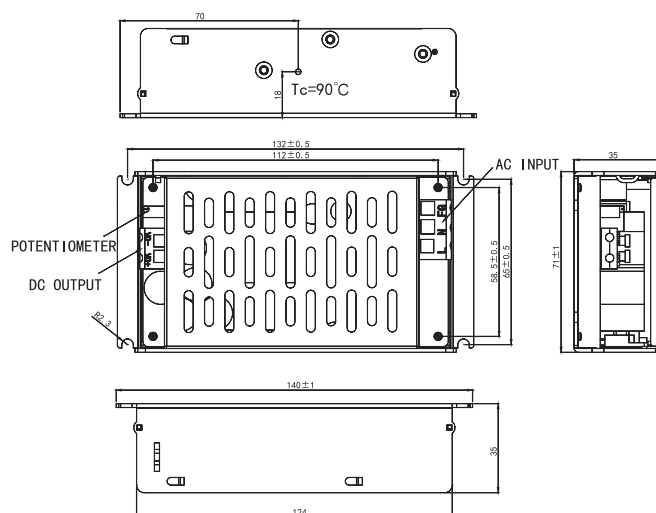
\*1: Current can be set by adjusting the potentiometer, the maximum output power can not exceed 60W.

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

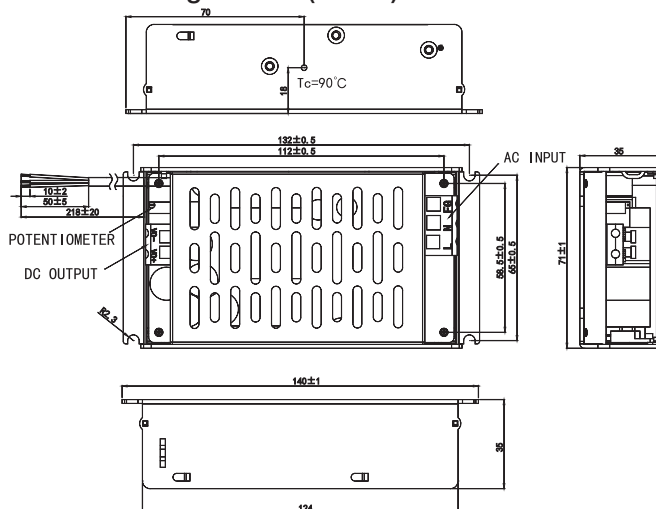
Part Number	Output Power	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
					110VAC	220VAC
UU060A140AQD	60W	1400mA	25-38VDC	± 5%	88%	89%
UU060A180AQD		1760mA	24-36VDC	± 5%	88%	89%
 UU060A190AQD		1900mA	24-36VDC	± 5%	88%	89%

## 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  
- Intelligent Series  
- Other Series

General Power Supplies  
- MP Series

SPD

Appendix