

MU096A Series - Constant Current Output & Dimming Control

Features

- Input voltage range: 90-305VAC
- High efficiency: 90% typical
- Active PFC: 0.99 typical
- Surge protection
- IP67 compliant
- Protections: OVP, SCP, OTP
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CE / PSE(Some part numbers complicant)
- Dimming control: 0 ~ 10VDC / PWM
- 5-year warranty



201 × 67.5 × 37mm

Electrical Specifications

Input voltage range	90~305VAC
Frequency	47~63Hz
Power factor	0.99 at 110VAC; 0.96 at 220VAC
Inrush current	50A MAX (25℃ at 220VAC, cold start)
Input current	1.2A MAX at 110VAC; 0.6A MAX at 220VAC
Efficiency	up to 90%
Maximum power	96W
Line regulation	± 1%
Load regulation	± 3%
Leakage current	1mA MAX
Protections	Over voltage, short circuit, over temperature



Environmental Specifications

Operating temperature	-35℃ ~ +70℃
Storage temperature	-40℃ ~ +85℃
Maximum case temperature	90℃
Humidity	5% ~ 95%RH
Cooling method	Convection
Isolation voltage	Input / output 3000VAC
MTBF	300,000 hours full load at 25℃ ambient
Life time	50,000 hours at 50℃ ambient
Reference dimension (L x W x H)	201 × 67.5 × 37 (mm)



Safety & EMC Compliance

CUL	UL8750, UL935, UL1012, UL1310 Class 2, 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 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

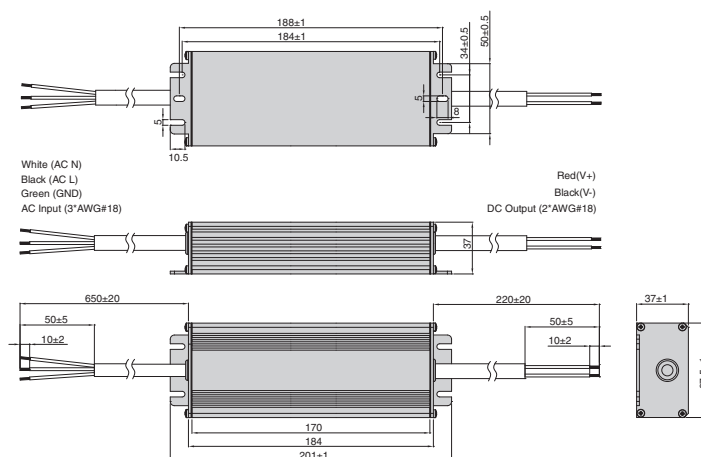
Part Number	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110VAC	220VAC
 MU096A175AQ	1750mA	27-55VDC	± 5%	86%	89%
 MU096A210AQ	2100mA	22-46VDC	± 5%	85%	88%
MU096A245AQ	2450mA	19-39VDC	± 5%	85%	88%
MU096A280AQ	2800mA	17-34VDC	± 5%	85%	88%
MU096A315AQ	3150mA	15-30.5VDC	± 5%	84%	87%
MU096A357AQ	3570mA	13-27VDC	± 5%	84%	87%
MU096A420AQ	4200mA	12-23VDC	± 5%	84%	87%

Model Specifications - Dimming Control (0~10V)

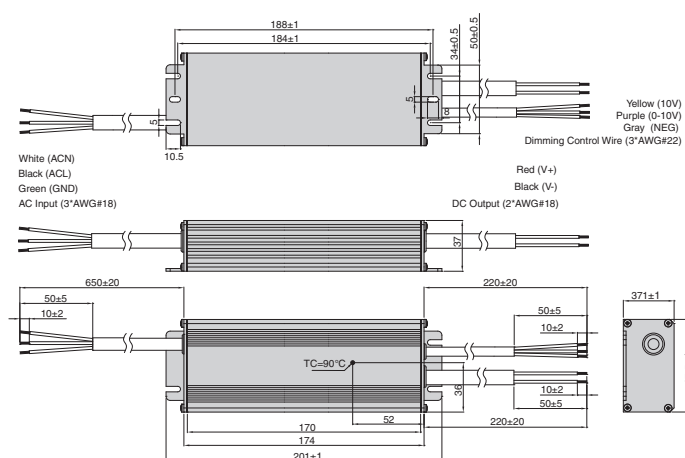
Part Number	Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
				110VAC	220VAC
 MU096A175AQD	1750mA	27-55VDC	± 5%	86%	89%
 MU096A210AQD	2100mA	22-46VDC	± 5%	85%	88%
MU096A245AQD	2450mA	19-39VDC	± 5%	85%	88%
MU096A280AQD	2800mA	17-34VDC	± 5%	85%	88%
MU096A315AQD	3150mA	15-30.5VDC	± 5%	84%	87%
MU096A357AQD	3570mA	13-27VDC	± 5%	84%	87%
MU096A420AQD	4200mA	12-23VDC	± 5%	84%	87%

Mechanical Outline (unit: mm)

Constant Current



Constant Current with Dimming Control (0~10V)



Numbering System

Quick Selection

LED Driver
- General Series
- Outdoor Use
- H SeriesLED Driver
- General Series
- Outdoor Use
- Half Potted SeriesLED Driver
- General Series
- Outdoor Use
- A SeriesLED Driver
- General Series
- Outdoor Use
- Other SeriesLED Driver
- Intelligent Series
- 50W Intelligent SeriesLED Driver
- Intelligent Series
- 40W Intelligent SeriesLED Driver
- Intelligent Series
- 50W Intelligent SeriesLED Driver
- Intelligent Series
- 50W Intelligent SeriesLED Driver
- Intelligent Series
- Other SeriesGeneral Power Supplies
- M Series

SPD

Appendix