

MU200A Series - constant current output & dimming control

Features

- input voltage range: 90-305 VAC
- high efficiency: 92% typical
- active PFC: 0.99 typical
- lightning protection (EN61000-4-5 Level IV)
- IP67 compliant
- protection: OVP, SCP, OTP
- Comply with UL8750, UL1012, CSA-C22.2 No. 107.1, IEC61347-1, IEC61347-2-13
- UL / CE
- dimming control: 0 ~ 10 VDC
- 5-year warranty



223 × 95 × 46mm

Electrical Specifications

Input voltage range	90~305 VAC
Frequency	47~63 Hz
Power factor	0.99 at 110VAC 0.95 at 220VAC (typical)
Inrush current	65A MAX (25°C, at 220VAC, cold start)
Input current	2.4A MAX at 110VAC 1.2A MAX at 220VAC
Efficiency	92% (typical) at 220VAC maximum load
Maximum power	200W
Line regulation	± 1%
Load regulation	± 3%
Leakage current	1mA MAX
Protection	over voltage, short circuit: auto recovery; over temperature

Environmental Specifications

Operating temperature	-35°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Maximum case temperature	90°C
Humidity	5% ~ 100%RH
Cooling method	convection
Isolation voltage	input / output 3000VAC
MTBF	350,000 hours full load at 25°C ambient
Life time	100,000 hours at 25°C ambient
Dimension (L x W x H)	223 × 95 × 46 (mm)

Safety & EMC Compliance

CUL	UL 8750, UL1012
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN55015
Radiated emissions	FCC Level 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
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
MU200A045AQ	450 mA	266-444VDC	± 3%	90%	92%
MU200A070AQ	700 mA	171-285VDC	± 3%	90%	92%
MU200A105AQ	1050 mA	114-190VDC	± 3%	90%	92%
MU200A140AQ	1400 mA	85-142VDC	± 3%	90%	92%
MU200A175AQ	1750 mA	68-114VDC	± 3%	89%	91%
MU200A210AQ	2100 mA	57-95VDC	± 3%	89%	91%
MU200A245AQ	2450 mA	48-81VDC	± 3%	89%	91%
MU200A280AQ	2800 mA	42-71VDC	± 3%	89%	91%
MU200A315AQ	3150 mA	38-63VDC	± 3%	89%	91%
MU200A350AQ	3500 mA	34-57VDC	± 3%	89%	91%
MU200A420AQ	4200 mA	28-47VDC	± 3%	88%	90%
MU200A490AQ	4900 mA	24-40VDC	± 3%	88%	90%
MU200A560AQ	5600 mA	21-35VDC	± 3%	88%	90%
MU200A630AQ	6300 mA	15-25VDC	± 3%	88%	90%

Model Specifications - dimming control (0~10V)

part number	output current	output voltage	current accuracy	efficiency (typical)	
				110VAC	220VAC
MU200A045AQD	450 mA	266-444VDC	± 3%	90%	92%
MU200A070AQD	700 mA	171-285VDC	± 3%	90%	92%
MU200A105AQD	1050 mA	114-190VDC	± 3%	90%	92%
MU200A140AQD	1400 mA	85-142VDC	± 3%	90%	92%
MU200A175AQD	1750 mA	68-114VDC	± 3%	89%	91%
MU200A210AQD	2100 mA	57-95VDC	± 3%	89%	91%
MU200A245AQD	2450 mA	48-81VDC	± 3%	89%	91%
MU200A280AQD	2800 mA	42-71VDC	± 3%	89%	91%
MU200A315AQD	3150 mA	38-63VDC	± 3%	89%	91%
MU200A350AQD	3500 mA	34-57VDC	± 3%	89%	91%
MU200A420AQD	4200 mA	28-47VDC	± 3%	88%	90%
MU200A490AQD	4900 mA	24-40VDC	± 3%	88%	90%
MU200A560AQD	5600 mA	21-35VDC	± 3%	88%	90%
MU200A630AQD	6300 mA	15-25VDC	± 3%	88%	90%

Mechanical Outline (unit: mm)

