

## MU050AxxxAQ Series

### Constant Current Output



### Features

- 1). Input voltage range 90-305Vac.
- 2). High efficiency: 88% typical
- 3). Active PFC: 0.99 typical
- 4). Lightning protection (EN61000-4-5 Level IV)
- 5). IP67 Compliant
- 6). Protection: OVP,SCP,OTP
- 7). Comply with UL8750,UL1310/UL1012, IEC61347.1,IEC61347-2-13

### Electrical Specifications

Input Voltage Range	90~305 VAC
Frequency	47~63 Hz
Power Factor	0.99 at 110Vac 0.92 at 220Vac (typical)
Inrush Current	30 A Max (25°C,at 230 VAC,Cold Start)
Input Current	0.7A Max at 100Vac 0.35A Max at 220Vac
Efficiency	88% typical at Maximum Load
Maximum Power	50W
LineRegulation	±1%
Load Regulation	±3%
Leakage Current	1mA Max
Protection	Over Voltage,Short Circuit;Auto Recovery Over Temperature Protection

### Environmental Specifications

Operating Temperature	-30°C~ +60°C
Storage Temperature	-40°C~ +85°C
Maximum Case Temp.	90°C
Humidity	5% ~ 100%
Cooling Method	Convection
Isolation voltage	Input/output 3000 Vac Input/chassis 1500 Vac
MTBF	300,000 hours at full load and 25°C ambient
Life Time	80,000 hours at 25°C ambient
Dimensions (L*W*H)	6.61*1.67*1.36 (inches) 168*42.5*34.5 (mm)

# LED Drivers

## Safety & EMC Compliance

CUL	UL 8750, UL1310 / UL1012
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Level B / EN 55015
Radiated emissions	FCC Level B / EN 55015
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

## Constant Current Versions - Model Specifications

Part Number	Output Current	Output Voltage	Current Accuracy	Typical Efficiency	
				110Vac	220Vac
MU050A035AQ	350 mA	71-142VDC	±3%	87.5%	88%
MU050A045AQ	450 mA	55-111VDC	±3%	87.5%	88%
MU050A070AQ	700 mA	36-72VDC	±3%	87.5%	88%
MU050A110AQ	1100mA	24-48VDC	±3%	87.5%	88%
MU050A119AQ	1190mA	21-42VDC	±3%	86.5%	87%
MU050A140AQ	1400mA	18-36VDC	±3%	86.5%	87%
MU050A210AQ	2100mA	12-24VDC	±3%	85.5%	86%
MU050A277AQ	2770mA	9-18VDC	±3%	84.5%	85%
MU050A300AQ	3000mA	6-12VDC	±3%	83.5%	84%

## Mechanical Outline

