MU050H Series

Features

- Input voltage: 90-305VAC
- High efficiency: 91% typical
- Active PFC: 0.99 typical
- High surge immunity
- Low THD IP67 compliant
- Protections: OVP, OCP, OTP, SCP
- Constant Current / 0-10V Dimming / Clock Dimming(CLK)
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



193 x 42.5 x 34.5mm

Electrical Specifications

Input voltage range	90~305VAC					
Frequency	47~63Hz					
Power factor	0.99 (typical), >0.90 100~277VACinput, 75%~100% load					
Input current	0.7A at 110VAC, 0.35A at 220VAC					
Inrush current	50A MAX at 220VAC					
Leakage current	1mA MAX at 277Vac/60Hz input					
Maximum output power	50W					
Line regulation	±1%					
Load regulation	± 3%					
Start-up time	<1.5s at 110VAC, <0.75s at 220VAC					
Protections	over voltage, over current, over temperature, short circuit: auto recovery					
THD	<10%, 220VAC, 50Hz input, 70%~100% load <15%, 110VAC/277VAC, 60Hz input, 70%~100% load					

Environmental Specifications

Operating temperature	-40℃ ~ +70℃					
Operating humidity	20 ~ 95% RH					
Storage temperature	-40℃ ~ +80℃					
Storage humidity	10 ~ 95% RH					
Cooling method	convection					
Isolation voltage	input / output 3750VAC					
MTBF	300,000 hours full load at 25℃ ambient					
Life time	50,000 hours, 75℃ TC					
Reference dimension (L x W x H)	193 x 42.5 x 34.5 (mm)					
Weight	0.55 kg					

Safety & EMC Compliance

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91					
CE	EN 61347-1, EN61347-2-13					
Conducted emissions	FCC Part15 / EN55015 Class B					
Radiated emissions	FCC Part15 / EN55015 Class B					
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 (Surge: L-N, 4KV, L/N-Earth, 6KV)					
Conducted radio frequency	EN61000-4-6					
Power frequency magnetic field test	EN61000-4-8					
Voltage dips	EN61000-4-11					
Electromagnetic immunity	EN61547					

General Series Outdoor Use I Series

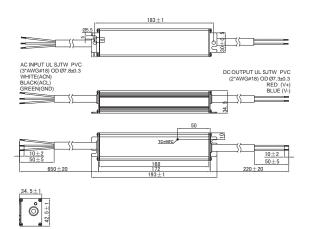
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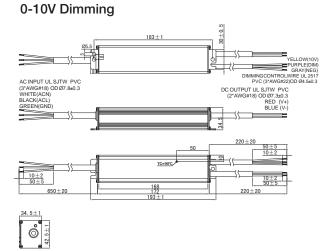
Model Specifications

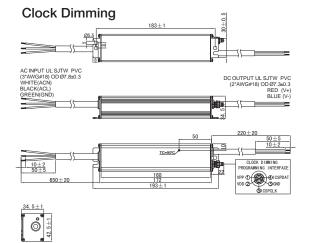
Model		Output Output		Current	Efficiency (typical)		
Constant Current	0-10V Dimming	Clock Dimming	Current	Voltage	Accuracy	110Vac	220Vac
MU050H035AQ	MU050H035AQ_0-10V	MU050H035AQ_CLK	350mA	71-142VDC	± 5%	90.0%	91.0%
MU050H045AQ	MU050H045AQ_0-10V	MU050H045AQ_CLK	450mA	55-111VDC	± 5%	90.0%	91.0%
MU050H070AQ	MU050H070AQ_0-10V	MU050H070AQ_CLK	700mA	36-72VDC	± 5%	89.0%	90.0%
MU050H105AQ	MU050H105AQ_0-10V	MU050H105AQ_CLK	1050mA	24-48VDC	± 5%	89.0%	90.0%
MU050H140AQ	MU050H140AQ_0-10V	MU050H140AQ_CLK	1400mA	18-36VDC	± 5%	88.0%	89.0%
MU050H175AQ	MU050H175AQ_0-10V	MU050H175AQ_CLK	1750mA	14-29VDC	± 5%	88.0%	89.0%
MU050H210AQ	MU050H210AQ_0-10V	MU050H210AQ_CLK	2100mA	12-24VDC	± 5%	87.0%	88.0%
MU050H245AQ	MU050H245AQ_0-10V	MU050H245AQ_CLK	2450mA	10-20VDC	± 5%	87.0%	88.0%
MU050H280AQ	MU050H280AQ_0-10V	MU050H280AQ_CLK	2800mA	9-18VDC	± 5%	86.0%	87.0%
MU050H315AQ	MU050H315AQ_0-10V	MU050H315AQ_CLK	3150mA	8-16VDC	± 5%	84.5%	86.0%

Mechanical Outline (unit: mm)

Constant Current







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