MU100H 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) / Standby(STB)
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL/CE
- 5-year warranty



187 x 67.5 x 40mm

Electrical Specifications

Input voltage range	90~305VAC					
Frequency	47~63Hz					
Power factor	0.99 (typical), >0.90 100~277VAC input, 80%~100% load					
Input current	1.2A at 110VAC, 0.6A at 220VAC					
Inrush current	15A at 230VAC input					
Leakage current	1mA MAX at 277Vac/50Hz input					
Maximum output power	100W					
Line regulation	±1%					
Load regulation	±3%					
Start-up time	<3s at 110VAC, <1.5s at 220VAC					
Protections	over voltage, over current, over temperature, short circuit: auto recovery					
THD	<10%, 220VAC, 50Hz input, 80%~100% load <15%, 110VAC/277VAC, 60Hz input, 80%~100% load					

Environmental Specifications

Operating temperature	-40℃ ~ +70℃
Operating humidity	10 ~ 100% RH
Storage temperature	-40℃ ~ +80℃
Storage humidity	5 ~ 100% 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)	187 x 67.5 x 40 (mm)
Weight	0.85 kg

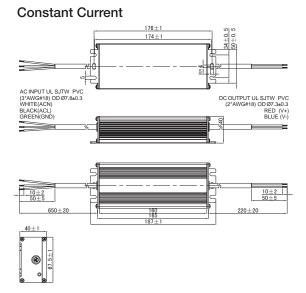
Safety & EMC Compliance

CUL	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M9				
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				

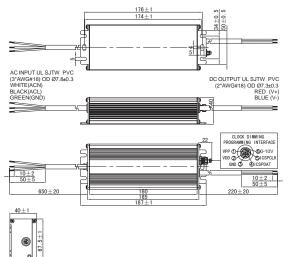
Model Specifications

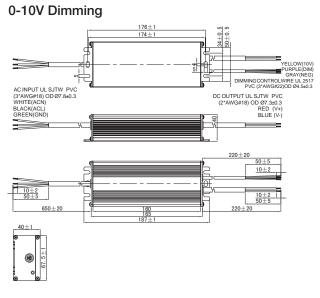
Model			Output	Output	Current	Efficiency	(typical)	
Constant Current	0-10V Dimming	Clock Dimming	Standby	Current	Voltage	Accuracy	110Vac	220Vac
MU100H035AQ	MU100H035AQ_0-10V	MU100H035AQ_CLK	MU100H035AQ_STB	350mA	143-286VDC	± 5%	89.0%	91.0%
MU100H045AQ	MU100H045AQ_0-10V	MU100H045AQ_CLK	MU100H045AQ_STB	450mA	111-222VDC	± 5%	89.0%	91.0%
MU100H053AQ	MU100H053AQ_0-10V	MU100H053AQ_CLK	MU100H053AQ_STB	530mA	94-188VDC	± 5%	89.0%	91.0%
MU100H070AQ	MU100H070AQ_0-10V	MU100H070AQ_CLK	MU100H070AQ_STB	700mA	71-143VDC	± 5%	89.0%	91.0%
MU100H105AQ	MU100H105AQ_0-10V	MU100H105AQ_CLK	MU100H105AQ_STB	1050mA	48-95VDC	± 5%	88.0%	90.0%
MU100H140AQ	MU100H140AQ_0-10V	MU100H140AQ_CLK	MU100H140AQ_STB	1400mA	36-71VDC	± 5%	88.0%	90.0%
MU100H175AQ	MU100H175AQ_0-10V	MU100H175AQ_CLK	MU100H175AQ_STB	1750mA	27-55VDC	± 5%	88.0%	90.0%
MU100H210AQ	MU100H210AQ_0-10V	MU100H210AQ_CLK	MU100H210AQ_STB	2100mA	23-46VDC	± 5%	87.0%	89.0%
MU100H245AQ	MU100H245AQ_0-10V	MU100H245AQ_CLK	MU100H245AQ_STB	2450mA	19-39VDC	± 5%	87.0%	89.0%
MU100H280AQ	MU100H280AQ_0-10V	MU100H280AQ_CLK	MU100H280AQ_STB	2800mA	17-34VDC	± 5%	87.0%	89.0%
MU100H315AQ	MU100H315AQ_0-10V	MU100H315AQ_CLK	MU100H315AQ_STB	3150mA	15-30.5VDC	± 5%	86.0%	88.0%
MU100H375AQ	MU100H375AQ_0-10V	MU100H375AQ_CLK	MU100H375AQ_STB	3750mA	13-27VDC	± 5%	86.0%	88.0%
MU100H420AQ	MU100H420AQ_0-10V	MU100H420AQ_CLK	MU100H420AQ_STB	4200mA	12-23VDC	± 5%	86.0%	88.0%

Mechanical Outline (unit: mm)

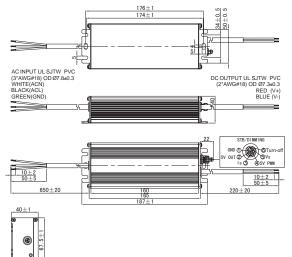


Clock Dimming





Standby



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