

MU120H 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



202 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	1.4A at 110VAC, 0.7A at 220VAC
Inrush current	15A at 230VAC input
Leakage current	1mA MAX at 277VAC/50Hz input
Maximum output power	120W
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°C ~ +70°C
Operating humidity	10 ~ 100% RH
Storage temperature	-40°C ~ +80°C
Storage humidity	5 ~ 100% RH
Cooling method	convection
Isolation voltage	input / output 3750VAC
MTBF	300,000 hours full load at 25°C ambient
Life time	50,000 hours, 75°C TC
Reference dimension (L x W x H)	202 x 67.5 x 40 (mm)
Weight	0.95 kg

Safety & EMC Compliance

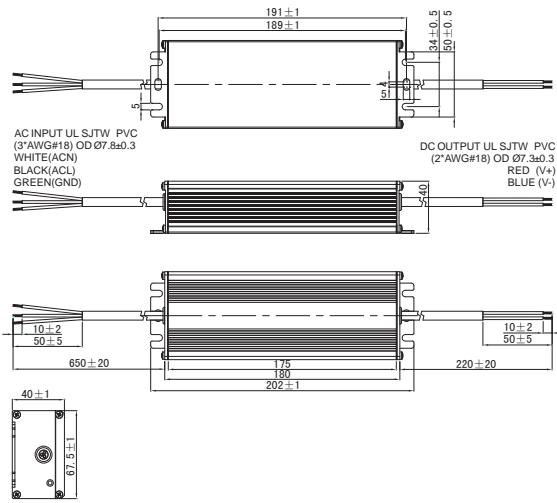
CUL	UL8750, UL1012, CSA-C22.2 NO. 107.1
CE	EN 61347-1, EN61347-2-13
Conducted emissions	FCC Part15 / EN55015 Class B
Radiated emissions	FCC Part15 / EN55015 Class B
Harmonic current emissions	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Electrostatic discharge	EN61000-4-2
RFE field susceptibility	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

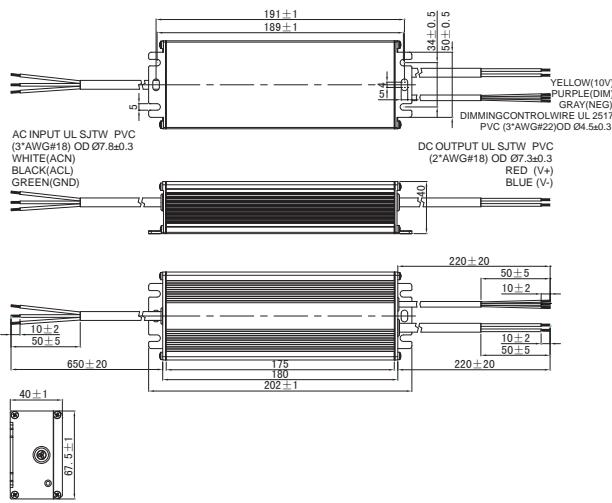
Constant Current	Model			Output Current	Output Voltage	Current Accuracy	Efficiency (typical)	
	0-10V Dimming	Clock Dimming	Standby				110Vac	220Vac
MU120H035AQ	MU120H035AQ_0-10V	MU120H035AQ_CLK	MU120H035AQ_STB	350mA	171-343VDC	± 5%	89.0%	91.0%
MU120H045AQ	MU120H045AQ_0-10V	MU120H045AQ_CLK	MU120H045AQ_STB	450mA	133-267VDC	± 5%	89.0%	91.0%
MU120H053AQ	MU120H053AQ_0-10V	MU120H053AQ_CLK	MU120H053AQ_STB	530mA	113-227VDC	± 5%	89.0%	91.0%
MU120H070AQ	MU120H070AQ_0-10V	MU120H070AQ_CLK	MU120H070AQ_STB	700mA	86-171VDC	± 5%	89.0%	91.0%
MU120H105AQ	MU120H105AQ_0-10V	MU120H105AQ_CLK	MU120H105AQ_STB	1050mA	57-114VDC	± 5%	88.0%	90.0%
MU120H140AQ	MU120H140AQ_0-10V	MU120H140AQ_CLK	MU120H140AQ_STB	1400mA	43-86VDC	± 5%	88.0%	90.0%
MU120H175AQ	MU120H175AQ_0-10V	MU120H175AQ_CLK	MU120H175AQ_STB	1750mA	34-69VDC	± 5%	88.0%	90.0%
MU120H210AQ	MU120H210AQ_0-10V	MU120H210AQ_CLK	MU120H210AQ_STB	2100mA	29-57VDC	± 5%	87.0%	89.0%
MU120H245AQ	MU120H245AQ_0-10V	MU120H245AQ_CLK	MU120H245AQ_STB	2450mA	24-48VDC	± 5%	87.0%	89.0%
MU120H280AQ	MU120H280AQ_0-10V	MU120H280AQ_CLK	MU120H280AQ_STB	2800mA	21-43VDC	± 5%	87.0%	89.0%
MU120H315AQ	MU120H315AQ_0-10V	MU120H315AQ_CLK	MU120H315AQ_STB	3150mA	19-38VDC	± 5%	86.0%	88.0%
MU120H375AQ	MU120H375AQ_0-10V	MU120H375AQ_CLK	MU120H375AQ_STB	3500mA	17-34VDC	± 5%	86.0%	88.0%
MU120H420AQ	MU120H420AQ_0-10V	MU120H420AQ_CLK	MU120H420AQ_STB	4200mA	14-28VDC	± 5%	85.0%	87.0%
MU120H500AQ	MU120H500AQ_0-10V	MU120H500AQ_CLK	MU120H500AQ_STB	5000mA	12-24VDC	± 5%	85.0%	87.0%

Mechanical Outline (unit: mm)

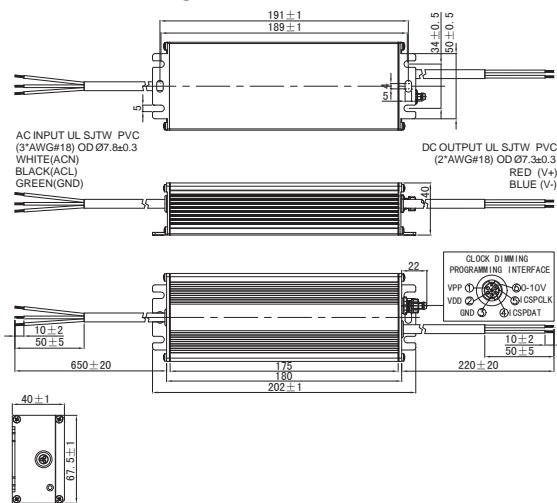
Constant Current



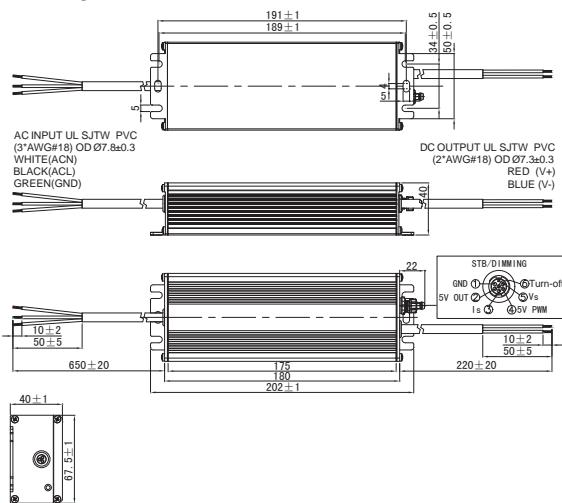
0-10V Dimming



Clock Dimming



Standby



LED Driver
- General Series
- Outdoor Use
- H Series

LED Driver
- General Series
- Outdoor Use
- Half Potted Series

LED Driver
- General Series
- Indoor Use

LED Driver
- Intelligent Series
- 50W Intelligent Series

LED Driver
- Intelligent Series
- 30W Intelligent Series

LED Driver
- Programmable Series
- Clock Control Series

General Power Supplies
- MF Series

SPD

Appendix