

MU060HxxxAQ_0-10V Series

General - Outdoor

DWG NO. : MSSD-4921



■ Features · Input voltage: 90-305VAC

- · Built-in active PFC function: 0.99 Typ.
- · Low THD: 10% Typ.
- · High efficiency: 91% Typ.
- \cdot IP67 design for indoor or outdoor installations
- · High surge immunity
- · Support 0-10V / 10V PWM / VR dimming function
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations





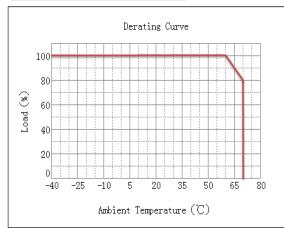


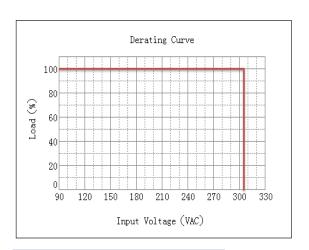
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■ Specif	fication																
•	Model																
(ML	J060H XXX AQ_0-10V)	035	045	053	070	075	105	140	175	180	210	245	280	315	350	420	500
,	Efficiency(110Vac)(Typ.) _{Note.1}	90%	90%	90%	89%	89%	89%	88%	88%	87%	87%	86%	85%	84%	83%	82%	81%
	Efficiency(220Vac)(Typ.) _{Note.1}	91%	91%	91%	90%	90%	90%	89%	89%	88%	88%	87%	86%	85%	84%	83%	82%
	Voltage Range (V) _{Note.2}		1		90 ~ 30	5Vac, OR	127~ 430\	/dc (Derati	ng may be	need unde	er low inpu	ts, Refer to	o 'Derating	Curve')		1	1
	Voltage Rate (V) _{Note.2}									-277Vac							
	Frequency Range (Hz)								47-	~63							
	Power Factor(Typ.)		0.99 (Typ.) with 70%~100% load,at 110Vac														
Input								0.97 (Typ.)									
										0% load,at							
			10% Typical, at 220Vac input, with 70%~100% load conditions														
	THD(Typ.)		15% Typical, at 110/277Vac input, with 70%~100% load conditions														
	AC Current(Typ.)		0.8A at 110VAC input, 0.4A at 220VAC														
	Inrush Current(Max.)	50A at 230Vac input 25°C Cold Start (time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for less than 0.2ms)															
	Leakage Current(Max.)							0.	75mA at 2	77Vac/60H	Hz					6 82% 6 83% 7 7~14 0 4200 0 58.80	
	Voltage range (V)	85~170	67~134	56~113	43~86	40~80	29~58	21~43	17~35	17-33	14~29	12~25	10~21	9~19	8~17	7~14	6~12
	Rated Current(mA)	350	450	530	700	750	1050	1400	1750	1800	2100	2450	2800	3150	3500	4200	5000
	Rated Power (W)	59.50	60.30	59.89	60.20	60.00	60.90	60.20	61.25	59.40	60.90	61.25	58.80	59.85	59.50	58.80	60.00
	Ripple&Noise Current(Typ.)	\$30%((PK-AV) /AV) with LED default mode and full load)															
Output	Current Tolerance _{Note,5}	±5%															
	Line Regulation	±1%															
	Load Regulation	±3%															
	Current ADJ. Range	10% to 100%, continuously adjustable															
	Turn on delay Time	<1.5s, at 110Vac; <0.75s, at 220Vac															
	Over Voltage(V)	180	142	120	92	86	63	48	40	38	33	29	25	23	21	17	15
Protection			Protection type: Limit the output voltage, recovers automatically after fault condition is removed														
Protection	Over Current				Protec			current limi						moved			
	Short Circuit							, recovers									
	Over temperature							Tc of PSU									
	·	The power supply should resume its normal operation when the inside temperature of PSU drop to normal temperature															
	Operating Temp.	-40~+70°C(Refer to 'Derating Curve')															
	Tc	90℃ max															
Environment	Operating Humidity	20~95%RH															
	Storage Temp., Humidity									, 10-95%R	RH						
	Temp. Coefficient								0.03%/℃	(0~50°C)							
	Vibration							12min/cyc									
	Safety Standard		UL8750, UL1012,UL1310, CSA-C22.2 NO. 107.1,CSA-C22.2 NO. 223-M91, EN61347-1, EN61347-2-13														
Safety & EMC	Withstand Voltage							D/P:3.75K\									
	Isolation Resistance							I/P-FG, O/									
	EMC Emission							C Part 15 (
	EMC Immunity		1		1	EN6	1000-4-2,3	,4,5,6,8,11		7 (Surge:						1	1
UL Level	UL,CUL class 2	1		1				V	V	V	V	V	V	V	V	V	V
	NON-UL,NON-CUL class 2	V	V	V	V	V	V									82% 83% 83% 7~14 4200 58.80	
	MTBF	1						ours,meas									
Others	Lifetime		50,000 Hours at Tc 75℃ (Refer to Life Time VS. Tcase (Ref.)")														
	Dimension		173 x 67.5 x 40 (mm) (LxWxH)														
	Weight								0.8	0kg							

Note.1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages, Please Refer to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C of ambient temperature; Note. 4: see UL Level; Note.5: Includes set up tolerance, line regulation and load regulation.

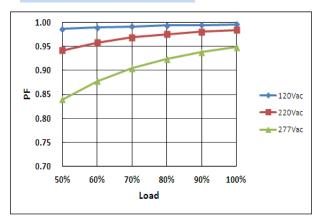
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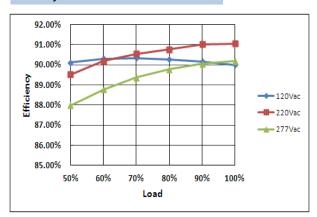




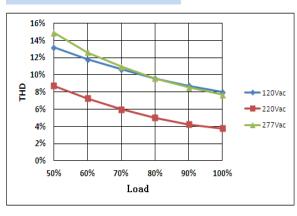
Power Factor VS. Load Curve



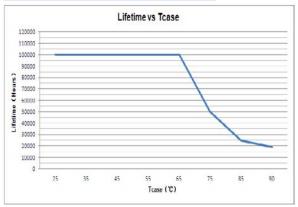




THD Curve



Life Time VS. Tcase (Ref.)



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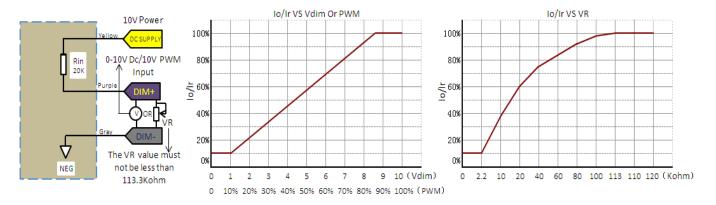
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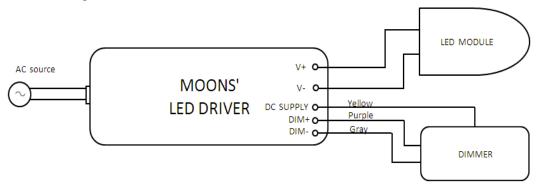
Dimming function description:

- 1. The dimmer control may be operated from an input signal of 0 10 Vdc / 10V PWM (Frequency range:500Hz to 5KHz, Duty:0-100%).
- 2. With one external variable resistor, the VR value must not be less than 113.3 Kohm.

Dimming module diagram and dimming cruve:



Dimming connection diagram:



Notes:

- 1.lo is actual output current with dimming control signal and Ir is rated output current.
- 2The dimming control signal can be operated output current from 100% to 10% Ir,output voltage must be maintained above 50% of the rated output voltage.
- 3.Do not connect dimming wire to the output; otherwise, the LED driver can not work normally.
- 4.The dimming signal is allowed to be less than 1V/10% PWM, the output current can be maintained 10% Ir. (about on/off function specification please contact MOONS for details).

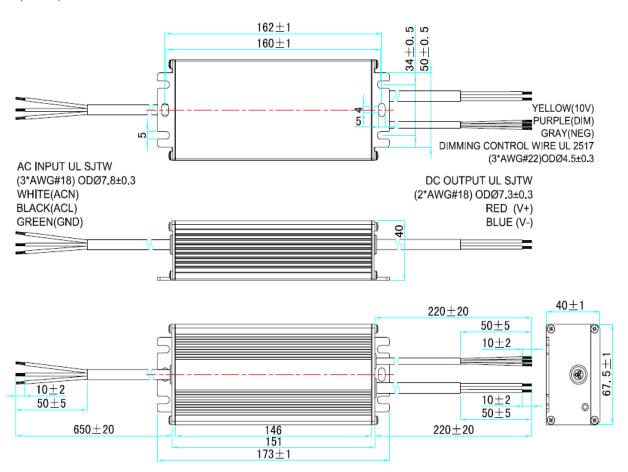
Dimming Control Module Parameter(On secondary side)

Parameter	Min.	Тур.	Max.	Notes
DC supply output voltage	10V	12V	14V	
DC supply output source current	0 mA	-	10 mA	
Absolute maximum voltage on the DIM+	-2V	-	12V	
Source current on the DIM+	0 mA	-	0.01 mA	
Value of Rin (the resistor inside the LED driver which locate between the DIM+ and the DC	19.8k	20k	20.2k	

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■ Mechanical Specification

1.Dimensions(Unit:mm)



RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.

2.Terminal wire Type

Producte		AC Input			DC output		Dimming control			
Floducis	Wire Type	Assignmen	Description	Wire Type	Assignmen	Description	Wire Type	Assignmen	Description	
UL apporval	UL SJTW PVC	BLACK/L	3*AWG#18	LII O ITM DVO	RED/+		UL2517 PV СОDФ 4.5±0.3mm	YE/10V		
		WHITE/N			BLUE/-	2*AWG#18		PU/DIM+	3*AWG#22	
		GREEN/GI						GR/NEG		
	Products UL apporval	Wire Type	Products Wire Type Assignmen BLACK/L UL apporval UL SJTW PVC WHITE/N	Products Wire Type Assignmen Description BLACK/L UL apporval UL SJTW PVC WHITE/N 3*AWG#18	Products Wire Type Assignmen Description Wire Type BLACK/L UL apporval UL SJTW PVC WHITE/N 3*AWG#18 UL SJTW PVC	Products Wire Type Assignmen Description Wire Type Assignmen BLACK/L UL apporval UL SJTW PVC WHITE/N 3*AWG#18 UL SJTW PVC BLUE/-	Products Wire Type Assignmen Description Wire Type Assignmen Description BLACK/L UL apporval UL SJTW PVC WHITE/N 3*AWG#18 UL SJTW PVC BLUE/- 2*AWG#18	Products Wire Type Assignmen Description Wire Type Assignmen Description Wire Type BLACK/L WHITE/N 3*AWG#18 UL SJTW PVC BLUE/- 2*AWG#18 UL2517 PV CODФ 4.5±0.3mm	Products Wire Type Assignmen Description Wire Type Description Wire Type Description Wire Type Assignmen Description Wire Type Description	

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