

MU075HxxxAQ_0-10V Series General - Outdoor

DWG NO.: MSSD-4778

■ 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







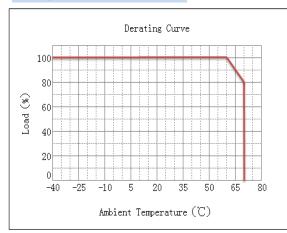
■ Speci	ification														
	Model														
(MI	U075H XXX AQ_0-10V)	035	045	053	070	105	140	175	210	245	280	315	7 23 21 is removed to normal temperature	420	500
(1010	Efficiency(110Vac)(Typ.) _{Note.1}	90%	90%	89%	89%	89%	88%	88%	87%	87%	86%	86%	85%	85%	84%
	Efficiency(220Vac)(Typ.) _{Note.1}	91%	91%	90%	90%	90%	89%	89%	88%	88%	87%				85%
	Voltage Range (V) _{Note.2}	3170	3170		l			1						0070	0370
	Voltage Rate (V) _{Note.2}				0140, 011		40 (20.41	• •	-277Vac	51 1011 IIIpo	, 1101011	- Doraming	, 04.70)		
	Frequency Range (Hz)								~63						
	requericy rearige (112)) 99 (Tvn.)			1 at 110Vs	ar .				
Input	Power Factor(Typ.)	0.99 (Typ.) with 70%~100% load,at 110Vac 0.96 (Typ.) with 70%~100% load,at 220Vac													
			>0.96 (Typ.) with 75%~100% load, at 220Vac												
			>0.9 with 75%~100% load, at 277 vac												
	THD(Typ.)		15% Typical, at 110/277Vac input, with 70%~100% load conditions												
	AC Current(Typ.)		1A at 110VAC input, 0.5A at 220VAC												
	Inrush Current(Max.)	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 0.3													
	Leakage Current(Max.)							75mA at 2						85% 86% 86% Filter for le 9~18 4200 75.60	
	Voltage range (V)	107~214	83~166	71-142	54~108	36~72	27~54	21~43	18~36	15~31	13~27	12~24	10~20	9~18	7~15
	Rated Current(mA)	350	450	530	700	1050	1400	1750	2100	2450	2800				5000
Output	Rated Power (W)	74.90	74.70	75.26	75.60	75.60	75.60	75.25	75.60	75.95	75.60		1		75.00
	Ripple&Noise Current(Typ.)					l		1	l	l	L				
Output	Current Tolerance _{Note.5}	≤30%((PK-AV) /AV) with LED default mode and full load) ±5%													
	Line Regulation	±1%													
	Load Regulation	±1/0 ±3%													
	Current ADJ. Range	10% to 100%, continuously adjustable													
	Turn on delay Time		<1.5s, at 110Vac; <0.75s, at 220Vac												
	Turn on dolay Time	217	180	146	112	76	57	46	39	1	30	27	23	21	18
	Over Voltage(V)														
		Protection type: Limit the output voltage, recovers automatically after fault condition is removed													
Protection	Over Current		Protection type: constant current limiting, recovers automatically after fault condition is removed												
	Short Circuit				Hic	cup mode	, recovers	automatica	ally after fa	i, at 220Vac 34 30 omatically after fault commatically after fault commatically after fault commatically after fault commatically after fault condition is rem), the PSU will shutder	on is remov	/ed.			
	Over temperature				١	When the	Tc of PSU	rise to 110)°C(Typ.), t	he PSU w	ill shutdow	n		% 85% % 86% sign of the second	
	Over temperature		The po	wer supply	should re	sume its n	ormal ope	ation wher	the inside	temperat	ure of PSL	J drop to n	ormal temp		
	Operating Temp.						-40~+70	°C(Refer t	o 'Deratino	Curve')					
	Tc							90℃	max			86% 87% r to 'Derating ons titions 7			
Environment	Operating Humidity							20~9	5%RH						
Input	Storage Temp., Humidity						-	40~+80°C	, 10-95%F	:H					
	Temp. Coefficient							0.03%/℃	(0~50℃)						
	Vibration				10~	500Hz, 5G	12min/cy	cle, period	for 72min	each along	уX、Y、Z	axes		9~18 4200 75.60 21	
	Safety Standard			UL8750, L	JL1012,UL	1310, CS <i>A</i>	-C22.2 N	D. 107.1,C	SA-C22.2	NO. 223-N	191, EN61:	347-1, EN	61347-2-13	3	
	Withstand Voltage					I/P-C	D/P:3.75K\	/ac, I/P-FG	G:1.875KV	O/P-FG:1	I.5KV				
	Isolation Resistance					I/P-O/P,	I/P-FG, O	P-FG:100	M Ohms/5	00Vdc/25°	C/70%RH				
20	EMC Emission				EN	55015/FC	C Part 15	Class B, El	N61000-3-	2 Class C	EN61000	-3-3		85% 86% 86% Filter for le 9~18 4200 75.60	
	EMC Immunity				EN6	1000-4-2,3	,4,5,6,8,1	I, EN61547	7 (Surge:	L-N 4KV,	L/N-Earth	6KV)			
III I evol	UL,CUL class 2						V	V	V	V	V	V	V	V	V
OF FEARI	NON-UL,NON-CUL class 2	V	V	V	V	V								85% 86% 86% 9~18 4200 75.60	
	MTBF		300,000 Hours,measured at full load,25 °C ambient temperature											85% 86% 86% 9~18 4200 75.60	
Others	Lifetime		50,000 Hours at Tc 75°C (Refer to "Life Time VS. Tcase (Ref.)")												
Omers	Dimension		173 x 67.5 x 40 (mm) (LxWxH)												
	Weight							0.8	2kg						

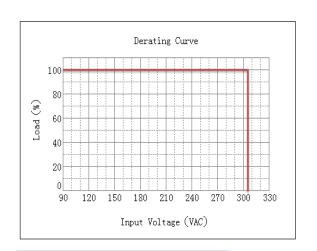
Note. 1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 220VAC input , rated load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

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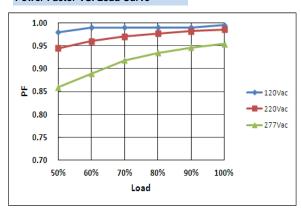
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Derating Curve

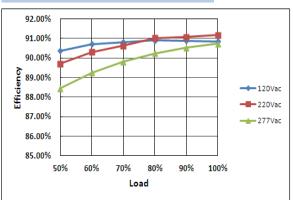




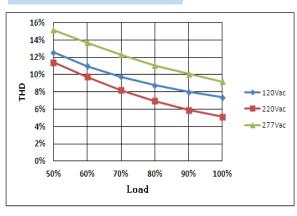
Power Factor VS. Load Curve



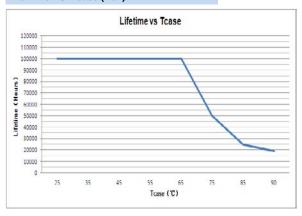
Efficiency VS. Load Curve



THD Curve



Life Time VS. Tcase (Ref.)



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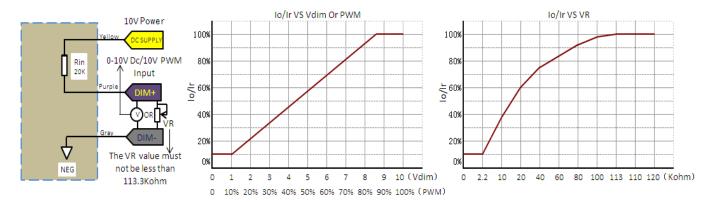
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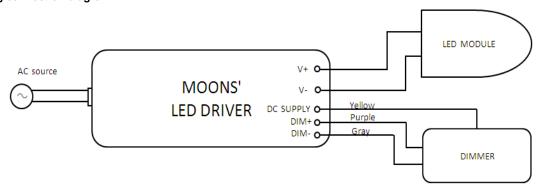
Dimming function description:

- 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.
- ${\it 3.} Do \ not \ connect \ dimming \ wire \ to \ the \ output; otherwise, the \ LED \ driver \ can \ not \ work \ normally.$
- 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).

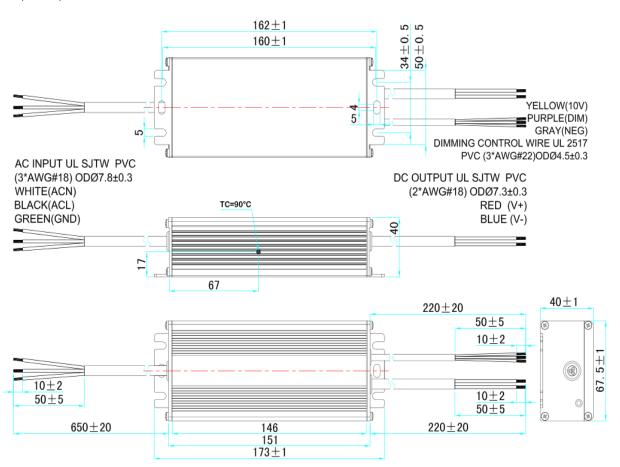
Dimming Control Module Parameter(On secondary side)

Parameter	Min.	Тур.	Max.	Notes
DC supply output voltage	8V	10V	12V	
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

Products	AC Input				DC output		Dimming control			
Troducts	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/+	2*AWG#18	UL2517 PV СОDФ 4.5±0.3mm	YE/10V	3*AWG#22	
		WHITE/N			BLUE/-			PU/DIM+		
		GREEN/GI						GR/NEG		

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