

MU075CxxxAQ_0-10V Series

General - Outdoor

DWG NO. : MSSD-5716



■ Features

- · Input voltage: 90-305VAC
- · Built-in active PFC function: 0.99 Typ.
- · High efficiency: 91% Typ.
- · IP67 design for indoor or outdoor installations
- · High surge immunity
- · Support 0-10V / 10V PWM
- Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations











Model (MU075CXXXAQ_0-10V)		035	045	053	070	085	105	120	140	175	210	245	280	300	315	350	375	420	500
		035	045	053	070	085	105	120	140	1/5	210	245	280	300	313	350	3/3	420	50
Input	Efficiency(120Vac)(Typ.) _{Note.1}	88%	88%	88%	87%	87%	87%	87%	86%	86%	86%	86%	85%	85%	85%	84%	84%	83%	839
	Efficiency(230Vac)(Typ.) _{Note.1}	91%	91%	91%	90%	90%	90%	90%	89%	89%	89%	89%	88%	88%	88%	87%	87%	86%	869
	Voltage Range (V) _{Note.2}		90∼305Vac, OR 127~ 430Vdc (Derating may be need under low inputs, Refer to 'Derating Curve')																
	Voltage Rate (V) _{Note.2}									100Vac-	277Vac								
	Frequency Range (Hz)									47~	63								
	Power Factor(Typ.)							0.99	(Typ.) w	ith 80%~	100% loa	d,at 120V	'ac						
		0.96 (Typ.) with 80%~100% load,at 230Vac																	
		>0.9 with 80%~100% load,at 277Vac																	
	TUD/Tup \	<15% with 80%~100% load, at 100Vac^277Vac																	
	THD(Typ.)	<20% with 50%~100% load, at 100Vac~277Vac																	
	AC Current(Typ.)		1.0A at 100VAC input, 0.5A at 230VAC																
	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 277Vac/60Hz																	
	Voltage range (V)	214	166	142	108	88	72	63	54	43	36	31	27	25	24	21	20	18	1
	Rated Current(mA)	350	450	530	700	850	1050	1200	1400	1750	2100	2450	2800	3000	3150	3500	3750	4200	500
	Rated Power (W)	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	7
	Voltage ADJ. Range (V)	107~214	83~166	71~142	54~108	44~88	36~72	32-63	27~54	21~43	18~36	15~31	13~27	13~25	12~24	11~21	10~20	9~18	7~
	Ripple&Noise Current(Typ.)	≤10%((PK-AV) /AV) with LED default mode and full load)																	
Output	Current Tolerance		±5%																
	Line Regulation		±1%																
	Load Regulation		±3%																
	Current ADJ. Range		·																
	Turn on delay Time								<2s, at	120Vac;	<1s, at 2	77Vac							
	Over Voltage(V)	230	180	155	119	98	81	71	62	50	43	38	33	31	30	27	26	24	21
			Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.																
	Over Comment						-					ent limiting							
Protection	Over Current					D	rotootion					tically afte		romovod	1				
	Short Circuit						Totection	туре. пісс	cup mode	. recovers	automai	lically afte	11 511011 15	removed					
	Over temperature	Pr	otection	type : De	crease ou	tput curre	ent . Whe	n TC read	ches 105±	:10℃, th	e output	current de	ecrease to	50% rat	te value u	ntil the TO	C reaches	75±15°	C
Environment	Operating Temp.							-	40~+70°C	(Refer to	Deratino	g Curve')							
	Tc		90°C max																
	Operating Humidity									20~95	%RH								
Environment	Storage Temp., Humidity								-40	~+80℃ ,	10-95%F	RH							
	Temp. Coefficient								0.	03%/°C (0~50°C)								
	Vibration						10-500F	łz,5G 12r	nin/cycle	period fo	or 72min	each alon	g X、Y、	Z axes					
Safety & EMC	Safety Standard					U	L 8750,	UL1012,	EN61347	7-1,EN6	1347-2-1	3, GB19	510.1;GB	19510.14	4				
	Withstand Voltage							I/P-O/P:	3.75KVac	I/P-FG	1.875KV	O/P-FG	:1.5KV						
	Isolation Resistance						I/P	-O/P, I/P-	FG, O/P-	G:100M	Ohms/50	00Vdc/25°	°C/70%R	Н					
	EMC Emission						EN55	015/FCC	Part 15,	EN6100	0-3-2 CI	ass C, E	N61000	-3-3					
	EMC Immunity		EN61000-4-2,3,4,5,6,8,11 (Surge L,N-FG 6KV, L-N 4KV), EN61547																
Others	MTBF											ambient	•						
	Lifetime						50,0	000 Hours				me VS. To	case (Ref	.)")					
	Dimension		177 x 67.5 x 37 mm (LxWxH)																
	Weight									0.75	ikg								

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 230VAC input, rated load and 25°C of ambient temperature;

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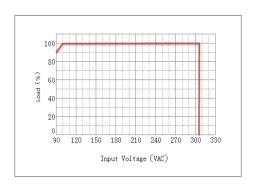
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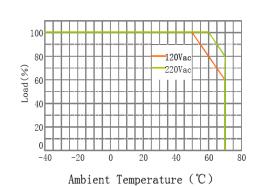


MOONS' MU075CxxxAQ_0-10V Series General - Outdoor

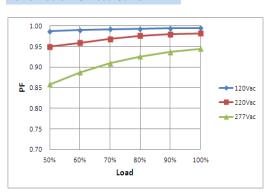
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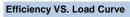
Derating Curve

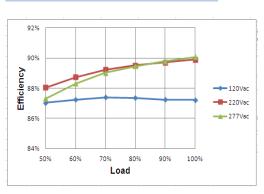




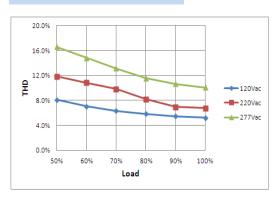
Power Factor VS. Load Curve



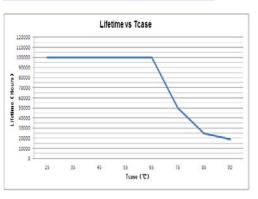




THD Curve



Life Time VS. Tcase (Ref.)



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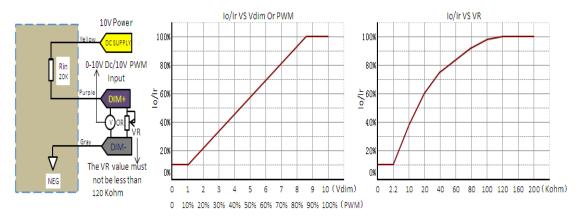
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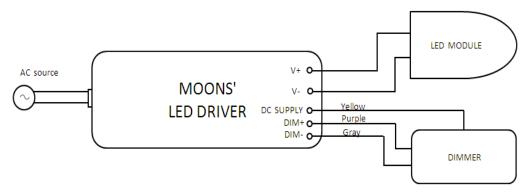
Dimming function description:

- 1.The dimming control may be operated from an input signal of 0(1)-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 120 Kohm.

Dimming module diagram and dimming curve:



Dimming connection diagram:



Notes:

- 1.lo is actual output current with dimming control signal and Ir is rated output current.
- 2. The 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	8V	10V	12V	
DC supply output source current	0 mA	-	10mA	
Absolute maximum voltage on the DIM+	-2V	-	10V	
Source current on the DIM+	0 mA	-	0.5mA	
Value of Rin (the resistor inside the LED driver which locate between the DIM+ and the DC Supply)	19.8k	20k	20.2k	

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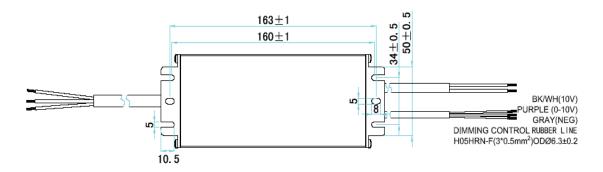
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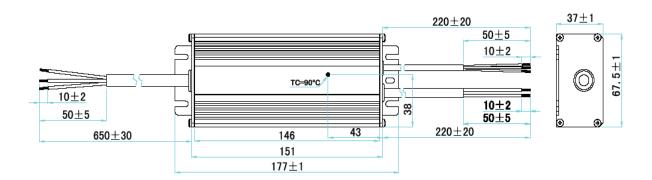
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■ Mechanical Specification

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.

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