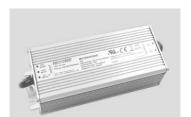


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■ Features · Input vo

· Input voltage: 90-305VAC

- Built-in active PFC function: 0.99 Typ.

Low THD: 15% Typ.High efficiency: 89% 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	475	040	0.45	000	045	057	400			
(MU096AXXXAQD)	175	210	245	280	315	357	420			
Input	Efficiency(120Vac)(Typ.) _{Note.1}	89%	88%	88%	88%	87%	87%	87%			
	Efficiency(230Vac)(Typ.) _{Note.1}	86%	85%	85%	85%	84%	84%	84%			
	Voltage Range (V) _{Note.2}	90 ~ 305Vac, OR 127~ 431Vdc (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.) with 80%~100% load,at 120Vac									
		0.96 (Typ.) with 80%~100% load,at 230Vac									
		>0.9 with 80%~100% load,at 277Vac									
	THD(Typ.)	<15% with 80%~100% load, at 100Vac~277Vac									
		<20% with 50%-100% load, at 100Vac~277Vac									
	AC Current(Typ.)	1.2A at 100VAC input, 0.6A at 230VAC									
	Inrush Current(Max.)	50A at 230Vac input 25°C Cold Start (time wide=500uS, measured at 50% lpeak,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)	55	46	39	34	30.5	27	23			
	Rated Current(mA)	1750	2100	2450	2800	3150	3570	4200			
	Rated Power (W)	96	96	96	96	96	96	96			
	Voltage ADJ. Range (V)	27~55	22~46	19~39	17~34	15~30.5	13~27	12~23			
	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	-20 at 120\(\array \tau \tau \tau \tau \tau \tau \tau \tau									
	Tulli on delay fillie	60	<3s, at 120Vac; <1.5s, at 277Vac 60 51 42.4 39 36		32	28					
	Over Voltage(V)			<u> </u>		l	_				
		Protection type: Voltage limiting.output will not exceed the upper limit voltage, recovers automatically after fault condition is removed.									
Protection	Over Current	90%~110% Protection type: constant current limiting, recovers automatically after fault condition is removed.									
	Short Circuit	Constant current limiting, recovers automatically after fault condition is removed.									
	Over temperature		When	the inside temperature	e of PSU rise to 110℃(Typ.), the PSU will shu	tdown.				
	Over temperature	The power supply should resume its normal operation when the inside temperature of PSU drop to normal temperature.									
Environment	Operating Temp.	-35~+70°C(Refer to 'Derating Curve')									
	Тс	90℃ max									
	Operating Humidity	20~95%RH									
	Storage Temp., Humidity	-40~+80°C , 10-95%RH									
	Temp. Coefficient	0.03%/°C (0~50°C)									
	Vibration	10-500Hz,5G 12min/cycle , period for 72min each along X、Y、Z axes									
	Safety Standard	UL8750, UL1012, UL1310 Class 2,CSA-C22.2 No. 107.1, CSA C22.2 NO. 223-M91 Class 2,EN61347-1, EN61347-2-13									
	Withstand Voltage			I/P-O	/P:3.75KVac O/P-FG	:1.5KV					
Safety & EMC	Isolation Resistance			I/P-O/P, I/P-FG, O	/P-FG:100M Ohms/500	0Vdc/25°C/70%RH					
	EMC Emission			EN55015/FCC Part	15 , EN61000-3-2 Cla	ass C, EN61000-3-3					
	EMC Immunity		EN	61000-4-2,3,4,5,6,8,11	(Surge L,N-FG 6K\	/, L-N 4KV) , EN6	1547				
Others	MTBF			300,000 Hours,mea	sured at full load,25°C	ambient temperature					
	Lifetime		50,000 Hours at Tc 75°C (Refer to "Life Time VS. Tcase (Ref.)")								
	Dimension				(67.5 x 37 mm (LxV						
	Weight	0.86kg									

Weight 0.86kg

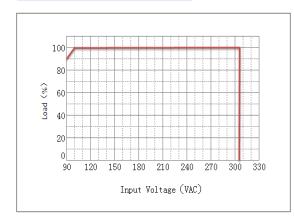
Note.1: Measured at full load and steady-state temperature in 25°C ambient(Efficiency will be about 2% lower if measured immediately after startup); Note. 2: Derating may be needed under low input voltages, Please Refer to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature;

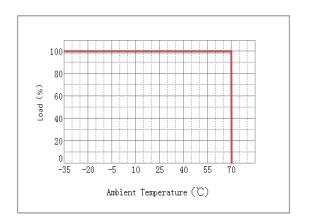


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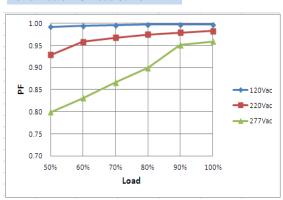
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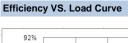


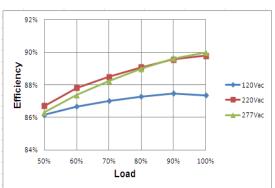




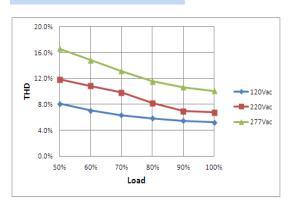
Power Factor VS. Load Curve



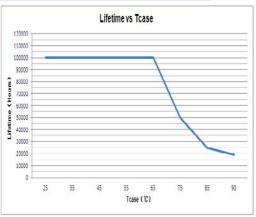




THD Curve



Life Time VS. Tcase (Ref.)



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Add: No.168, Mingjia Road, Shanghai 201107, P.R.China Tel: +86 (0)21 52634688 Website: www.moons.com.cn



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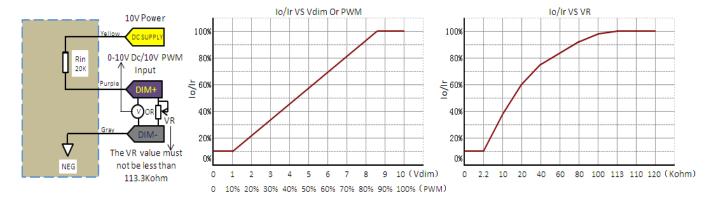
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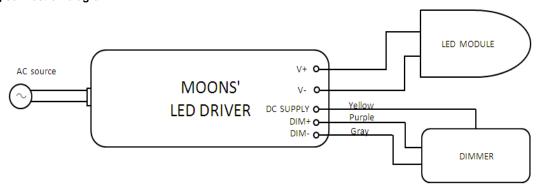
Dimming function description:

- 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	-	0.5 mA	
Value of Rin (the resistor inside the LED driver which locate between the DIM+ and the DC	19.8k	20k	20.2k	

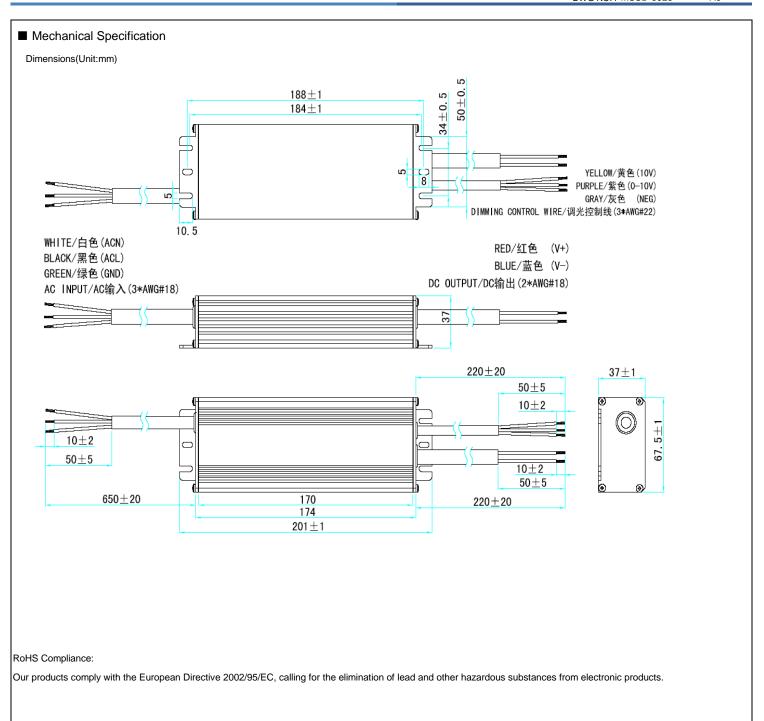
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