

MU075HxxxAQ STB Series

General - Outdoor

DWG NO.: MSSD-4495



■ Features · Input voltage: 90-305VAC

· Built-in active PFC function: 0.99 Typ.

· Low THD: 10% Typ. · High efficiency: 91% Typ.

· IP67 design for indoor or outdoor installations

· High surge immunity

Support 5V PWM dimming function and on/off function

· Compliance to worldwide safety regulations for lighting

· Suitable for dry/damp locations





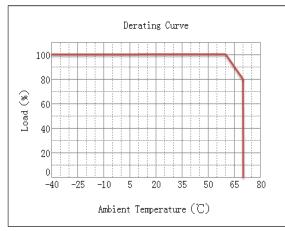


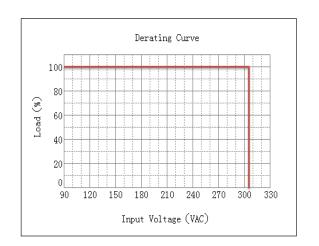
					E348796	. 010	133 2	Note.4	7						
■ Speci	fication														
	Model														
(M	U075HXXXAQ_STB)	035	045	053	070	105	140	175	210	245	280	315	350	420	500
(Efficiency(110Vac)(Typ.) _{Note.1}	90%	90%	89%	89%	89%	88%	88%	87%	87%	86%	86%	85%	85%	84%
Input	Efficiency(220Vac)(Typ.) _{Note.1}	91%		ļ	90%										85%
	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)														
	· · · · · · · · · · · · · · · · · · ·														
	Power Factor(Typ.)														
	(), /										86% 86% 85% 85% 85% 87% 87% 87% 86% 86% 86% ats, Refer to 'Derating Curve') ac ac ac d conditions for the inrush current to Noise Filter for 13~27 12~24 10~20 9~18 2800 3150 3500 4200 75.60 75.60 75.60 75.00 75.60 full load) 30 27 23 21 ter fault condition is removed er fault condition is removed on is removed. iill shutdown ture of PSU drop to normal temperature of PSU drop to normal temperature 1.5KV C/70%RH				
	TUD(T)	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.)		1A at 110VAC input, 0.5A at 220VAC												
	Inrush Current(Max.)	at 230Va	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 0.2												
	Leakage Current(Max.)						0.	75mA at 2	77Vac/60H	łz			85% 86% g Curve') 10~20 3500 75.00 23 removed removed		
	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	3150	3500	4200	5000
	Rated Power (W)	74.90	74.70	75.26	75.60	75.60	75.60	75.25	75.60	75.95	75.60	75.60	75.00	75.60	75.00
	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%, cont	tinuously a	djustable					
	Turn on delay Time						<1.5s, a	t 110Vac;	<0.75s, at	220Vac					
	Over Voltage(V)	217	180	146	112	76	57	46	39	34	30	27	23	21	18
		Protection type: Limit the output voltage, recovers automatically after fault condition is removed													
Protection	Over Current			Prote			90% 89% 89% 88% 88% 87% 87% 7- 430Vdc (Derating may be need under low inputs, Refer to 'Derating of 100Vac-277Vac 47-63 0.99 (Typ.) with 70%~100% load, at 110Vac 0.96 (Typ.) with 75%~100% load, at 220Vac >0.9 with 75%~100% load conditions 1A at 110VAC input, 0.5A at 220VAC 8=500uS, measured at 50% lpeak,Not applicable for the inrush current in 0.75mA at 277Vac/60Hz 36~72 27~54 21~43 18~36 15~31 13~27 12~24 1050 1400 1750 2100 2450 2800 3150 175.60 75.60 75.60 75.25 75.60 75.95 75.60 75.60 15.60 1400 1750 2100 2450 2800 3150 175.60 1400 1750 2100 2450 2800 3150 175.60 175.60 75.60 75.95 75.60 75.60 175.60 175.60 175.60 175.95 175.60 175.60 175.95 175.60 175.60 175.95 175.60 175.95 175.60 175.95 175.60 175.95 175.60 175.95 175.60 175.95 175.60 175.95 175.60 175.95 1	moved							
	Short Circuit								-			% 86% 85% 85% % 87% 86% 86% fer to 'Derating Curve') titions ditions e inrush current to Noise Filter for 727 12~24 10~20 9~18 700 3150 3500 4200 75.60 7			
	Over temperature		_												
			The po	wer supply	y should re	sume its n					ure of PSU	drop to n	ormal temp	erature	
	Operating Temp.		, , , , ,												
	Tc														
Environment	Operating Humidity														
	Storage Temp., Humidity									Н					
	Temp. Coefficient		045												
	Vibration												85% 85% 86% 86% ng Curve') ent to Noise Filter for la 10~20 9~18 3500 4200 75.00 75.60 23 21 removed removed		
	Safety Standard			UL8750, t	JL1012,UL							347-1, EIN	01347-2-13	3	
Safety &	Withstand Voltage Isolation Resistance														
EMC					EN							2.2			
	EMC Emission												85% 86% 10 10 10 10 10 10 10 1		
	EMC Immunity		ı		EINO	1000-4-2,3					L/IN-Ealtii				
UL Level	UL,CUL class 2	V					V	V	V	٧	V	V	V	V	V
	NON-UL,NON-CUL class 2 MTBF	V	V	ı v			L	urod at for	Lload 25°C	ombiest :	omno ret	<u> </u>	85% 86% g Curve') 10~20 3500 75.00 23 removed removed	<u> </u>	<u> </u>
			· · · · · · · · · · · · · · · · · · ·												
Others	Lifetime					5U,UUU HC					ase (Ref.)")			
Otners	Dimension		173 x 67.5 x 40 (mm) (LxWxH)												
	Weight								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.

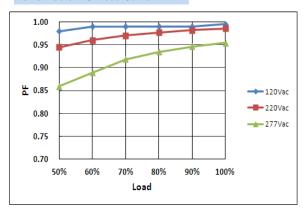
DWG NO.: MSSD-4495 A

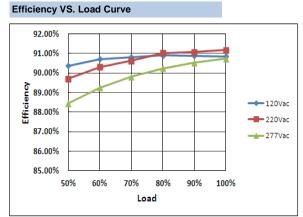




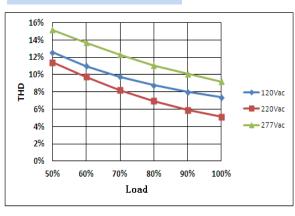


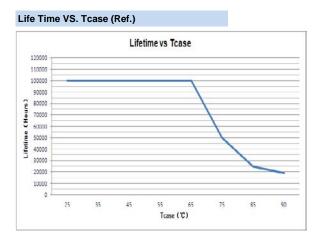
Power Factor VS. Load Curve





THD Curve





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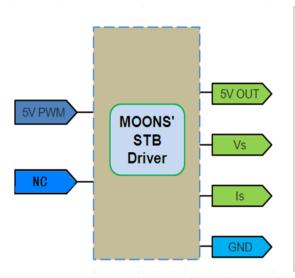


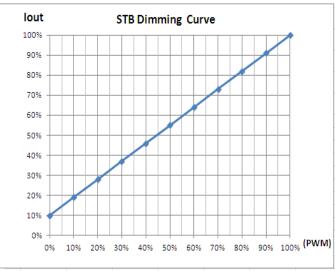
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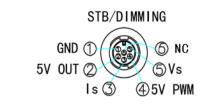
The dimmer control may be operated from an input signal of 5V PWM(frequency: 500Hz~5kHz,duty cycle: 0%~10 Recommended implementations are provided below.

STB dimming connection diagram and dimming curve





Dimming Interface Description



Pin Name		Description					
1 GND		DC Ground					
2 5V OUT		DC Supply 0uput					
3 Is		Current feedback					
4 5V PWM		PWM input pin					
5 Vs		Voltage feedback					
6	NC	NC					

Notes:

MOONS' STB Driver dimming interface with Standby controller (It is recommended to use MOONS' standby controller, using other standby controller may be not compatible and leads to flicker), you can achieve the following functions:

- A, Dimming levels: 10% to 100%, continuously adjustable.
- B、Status query: output voltage/current status query.
- C、Output: 5V 300mA.

Dimming Parameter (On secondary side)

Parameter	Min.	Тур.	Max.	Notes
5V output voltage	4.75V	5V	5.25V	
5V output source current	-	300 mA	-	
The voltage on the 5V PWM input pin	3.0V	3.3V	5.25V	
Source current on the 5V PWM input pin	-	1mA	2mA	
frequency on the 5V PWM input pin	500Hz	1KHz	5kHz	
Duty cycle on the 5V PWM input pin	0%	-	100%	
voltage on the Vs output pin	0V	2.0V	2.4V	
voltage on the Is output pin	0V	2.0V	2.4V	

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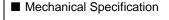


ONS' MU075HxxxAQ_STB Series

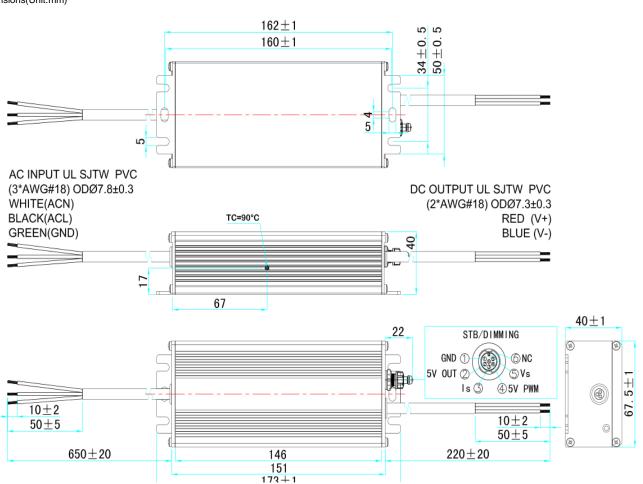
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1.Dimensions(Unit:mm)



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				
Troducts	Wire Type	Assignmen	Description	Wire Type	Assignmen	Description		
		BLACK/L		UL SJTW PVC	RED/+			
UL apporval	UL SJTW PVC	WHITE/N	3*AWG#18		BLUE/-	2*AWG#18		
		GREEN/GI						

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