

# **MU100CxxxAQ Series**

# **General - Outdoor**

DWG NO.: MSSD-5726 A



#### ■ Features

- · Input voltage: 90-305VAC
- · Built-in active PFC function: 0.98 Typ.
- · High efficiency: 92% Typ.
- $\cdot$  IP67 design for indoor or outdoor installations
- · High surge immunity
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry/damp locations



 $\epsilon$ 

	005	0.45	0.50	070	005	405	440	4===	040	0.45	000	245	0.50					
.00CxxxAQ)	035	045	053	070	085	105	140	175	210	245	280	315	350	420				
eiency(120Vac)(Typ.) <sub>Note.1</sub>	90.0%	90.0%	90.0%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%	88.0%	88.0%	88.0%	88.0%	88.0%				
iency(230Vac)(Typ.) <sub>Note.1</sub>	92.0%	92.0%	92.0%	91.0%	91.0%	91.0%	91.0%	91.0%	91.0%	90.0%	90.0%	90.0%	90.0%	90.0%				
age Range (V) <sub>Note.2</sub>		90 ~ 305Vac, OR 127~ 430Vdc (Derating may be need under low inputs, Refer to 'Derating Curve')																
age Rate (V) <sub>Note.2</sub>							100Vac	-277Vac										
quency Range (Hz)							47	~63										
Power Factor(Typ.)	0.98 (Typ.) with 80%-100% load,at 120Vac																	
	0.95 (Typ.) with 80%~100% load,at 230Vac																	
	>0.9 with 80%~100% load,at 277Vac																	
O(Typ.)		<20% with 80% ~ 100% load, at 100Vac~277Vac																
Current(Typ.)	1.2A at 100VAC input, 0.6A at 230VAC																	
sh Current(Max.)	65A 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)																	
kage Current(Max.)		1mA at 277Vac/60Hz																
Voltage (V)	286	222	189	143	118	95	71	57	48	41	36	32	28	24				
ed Current(mA)	350	450	530	700	850	1050	1400	1750	2100	2450	2800	3150	3500	4200				
age Range(V)	143~286	111~222	94~189	71~143	59~118	47~95	35~71	28~57	24~48	20~41	18~36	16~32	14~28	12~2				
ed Power (W)	100	100	100	100	100	100	100	100	100	100	100	100	100	100				
ole&Noise Current( Typ.)	<10%((PK-AV) /AV) with LED default mode and full load)																	
ent Tolerance	0.05																	
Regulation		0.01																
d Regulation		0.03																
ent ADJ. Range																		
on delay Time	<3s, at 120Vac; <1.5s, at 277Vac																	
r Voltage(V)			Pro	tection type	: Hiccup m	ode.The po	wer supply	shall be se	lf-recovery	when the fa	ault is remo	ved.						
rt Circuit		Protection type: Recovers automatically after fault condition is removed.																
r Temperature	mperature Protection type : The power supply shall return to normal operation only after the power is turn-on again.																	
rating Temp.						-40~+70	°C( Refer t	o 'Derating	Curve')									
		90℃ max																
rating Humidity	20~95%RH																	
age Temp., Humidity	-40~+85°C , 10-95%RH																	
p. Coefficient		0.03%/°C ( 0~50°C )																
ation		10-55-500Hz, 2G(10~55Hz),5G(55~500Hz) 1 octave/minute, period for 1hour each along X、Y、Z axes																
ety Standard		UL 8750,UL1012,IEC61347-1,IEC61347-2-13																
stand Voltage					I/P-	O/P:3.75K	/AC I/P-F0	G:1.875KV	O/P-FG:1.	5KV								
ation Resistance	I/P-O/P ,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH																	
Emission				E	N55015/FC	C Part 15 C	Class B, El	N61000-3-2	Class C,	EN61000-3	-3							
Immunity		EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge L,N-FG 6KV, L-N 4KV)																
BF					300,000	Hours,mea	sured at full	load,25°C	ambient ter	nperature								
	1	50,000 Hours at Tc 75℃ (Refer to "Life Time VS. Tcase (Ref.)")																
ime							221 x 67.5 x 37 (mm) ( LxWxH )											
					El	300,000	300,000 Hours,meas	300,000 Hours,measured at full	300,000 Hours,measured at full load,25°C	300,000 Hours,measured at full load,25 °C ambient ten	300,000 Hours,measured at full load,25 ℃ ambient temperature	300,000 Hours,measured at full load,25 °C ambient temperature	300,000 Hours,measured at full load,25°C ambient temperature	300,000 Hours,measured at full load,25°C ambient temperature				

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;

subject to change without notice

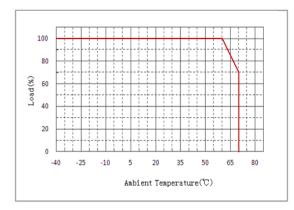
Page 1 of 3

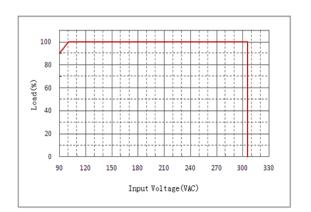
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China Tel: +86 (0)21 52634688 Website: www.moons.com.cn



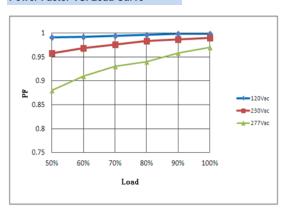
DWG NO.: MSSD-5726 AC

## **Derating Curve**

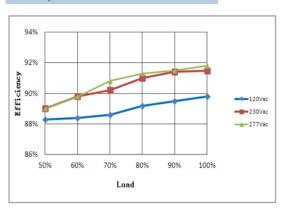




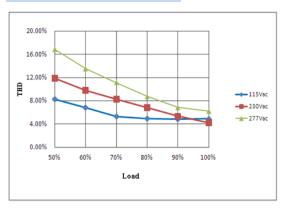
#### **Power Factor VS. Load Curve**



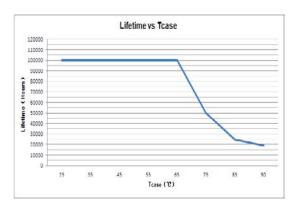
## Efficiency VS. Load Curve



#### THD Curve



## Life Time VS. Tcase (Ref.)

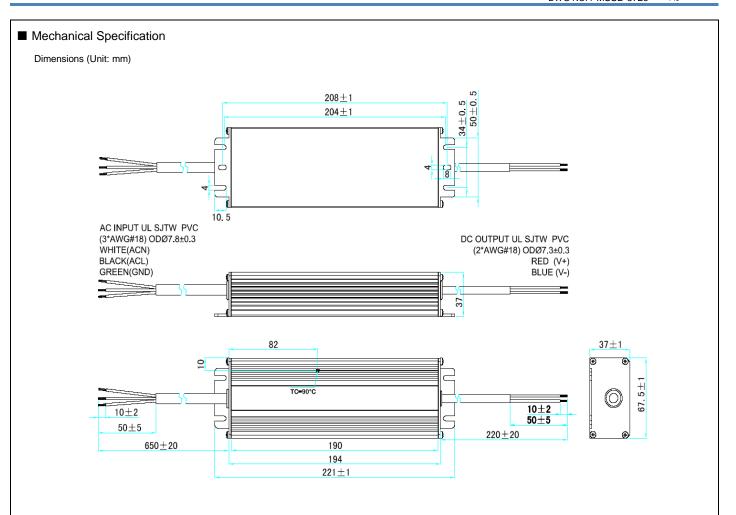


subject to change without notice Page 2 of 3



# **MU100CxxxAQ Series**

DWG NO.: MSSD-5726



#### 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.

subject to change without notice

Page 3 of 3