



■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.98 Typ.
- High efficiency: 90% Typ.
- High surge immunity
- Compliance to worldwide safety regulations for lighting



■ **Specification**

Model		100	150	210	250	300
(UF100AxxxAQ)						
Input	Efficiency(120Vac)(Typ.) _{Note.1}	88.0%	88.0%	87.0%	87.0%	87.0%
	Efficiency(230Vac)(Typ.) _{Note.1}	90.0%	90.0%	89.0%	89.0%	89.0%
	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.)	0.98 (Typ.) with 80%~100% load,at 120Vac				
		0.95 (Typ.) with 80%~100% load,at 230Vac				
		>0.9 with 80%~100% load,at 277Vac				
	THD(Typ.)	<20% with 80% ~ 100% load, at 100Vac~277Vac				
	AC Current(Typ.)	1.2A at 100VAC input, 0.6A at 230VAC				
Output	Inrush Current(Max.)	65A 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.)	1mA at 277Vac/60Hz				
	DC Voltage (V)	100	67	48	40	35
	Rated Current(mA)	1000	1500	2100	2500	3000
	Voltage Range(V)	60~100	43~67	30~48	24~40	24~35
	Rated Power (W)	100	100	100	100	100
	Ripple&Noise Current(Typ.)	<10%((PK-AV) /AV) with LED default mode and full load)				
	Current Tolerance	5%				
	Line Regulation	1%				
	Load Regulation	3%				
Protection	Current ADJ. Range	-				
	Turn on delay Time	<3s, at 120Vac; <1.5s, at 277Vac				
	Over Voltage(V)	Protection type : Hiccup mode.The power supply shall be self-recovery when the fault is removed.				
Environment	Short Circuit	Protection type : Recovers automatically after fault condition is removed.				
	Over Temperature	Protection type : The power supply shall return to normal operation only after the power is turn-on again.				
	Operating Temp.	-35~+60°C(Refer to 'Derating Curve')				
Safety & EMC	Tc	90°C max				
	Operating Humidity	20~95%RH				
	Storage Temp., Humidity	-40~+85°C , 10-95%RH				
	Temp. Coefficient	0.03%/°C (0~50°C)				
	Vibration	2G(10~55Hz) 1 octave/minute, period for 1hour each along X、Y、Z axes				
Others	Safety Standard	UL 8750,UL1012,IEC61347-1,IEC61347-2-13				
	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-FG:100M Ohms/500VDC/25°C/70%RH				
	EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3				
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge L,N-FG 4KV, L-N 2KV)				
Weight	MTBF	300,000 Hours,measured at full load,25°C ambient temperature				
	Lifetime	50,000 Hours at Tc 70°C(Refer to"Life Time VS. Tcase (Ref.)")				
	Dimension	162 x 71 x 40 (mm) (LxWxH)				
	Weight	0.45kg				

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

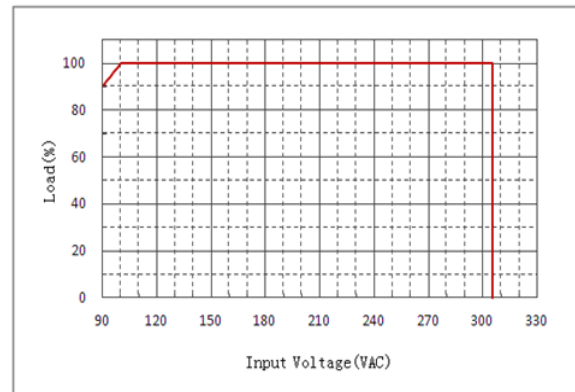
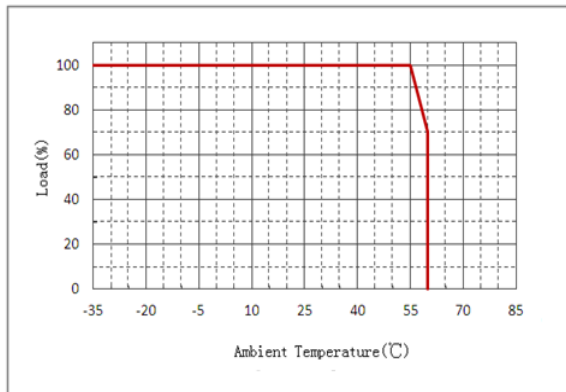
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SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

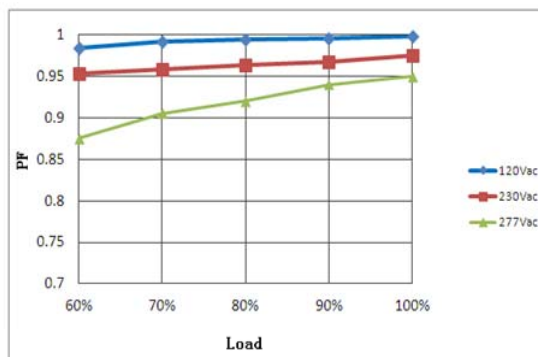
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

Tel: +86 (0)21 52634688 Website: www.moons.com.cn

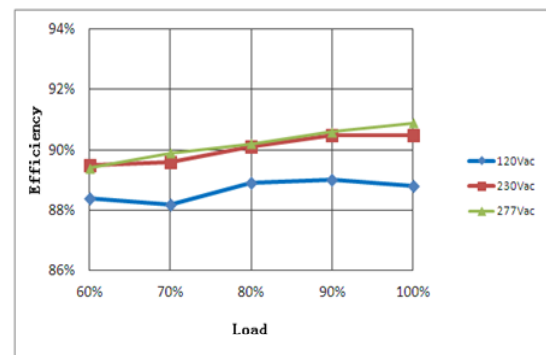
Derating Curve



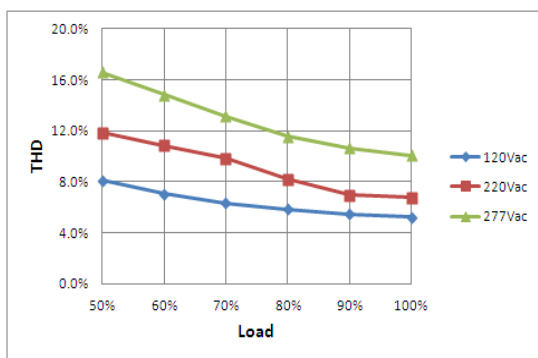
Power Factor VS. Load Curve



Efficiency VS. Load Curve



THD Curve



Life Time VS. Tcase (Ref.)

