



- **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 (UU120AxxxAQ)		120	150	210	300
Input	Efficiency(120Vac)(Typ.) _{Note.1}	88.0%	88.0%	87.0%	87.0%
	Efficiency(230Vac)(Typ.) _{Note.1}	90.0%	90.0%	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.)	1.5A 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	80	57	40
	Rated Current(mA)	1200	1500	2100	3000
	Voltage Range(V)	60~100	48~80	34~57	24~40
	Rated Power (W)	120	120	120	120
	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.			
	Short Circuit	Protection type : Recovers automatically after fault condition is removed.			
Environment	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')			
	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			
Safety & EMC	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)			
Others	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 ;

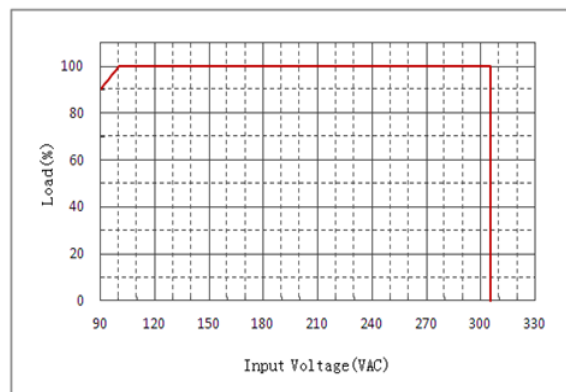
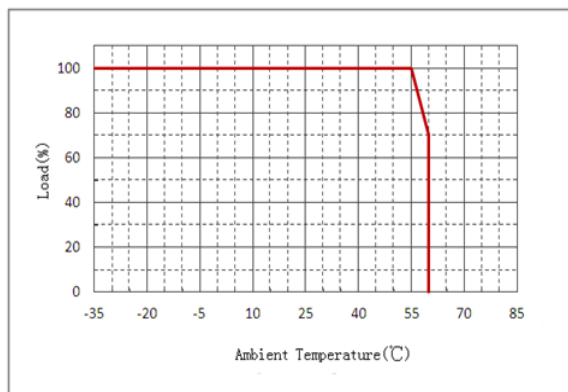
subject to change without notice

Page 1 of 3

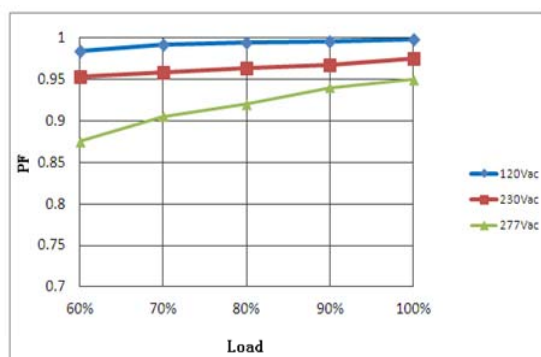
SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

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

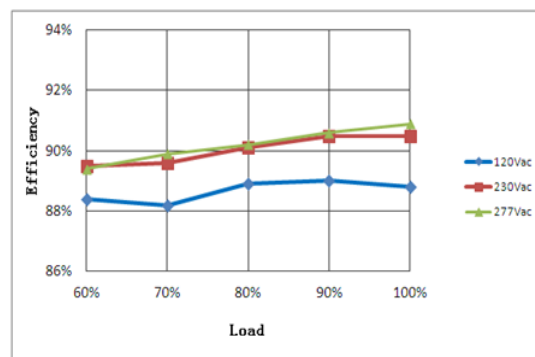
Derating Curve



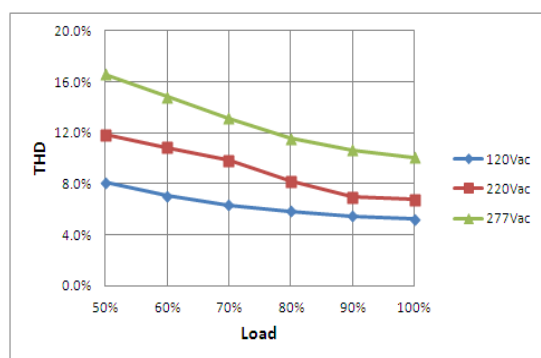
Power Factor VS. Load Curve



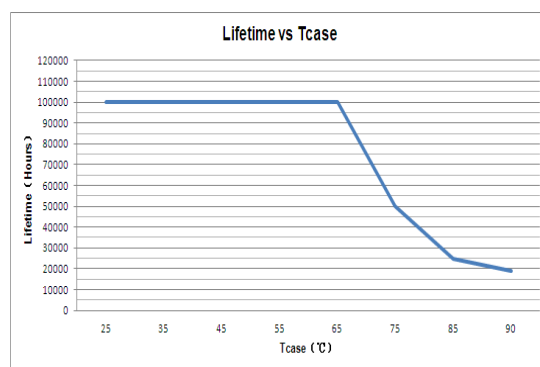
Efficiency VS. Load Curve



THD Curve

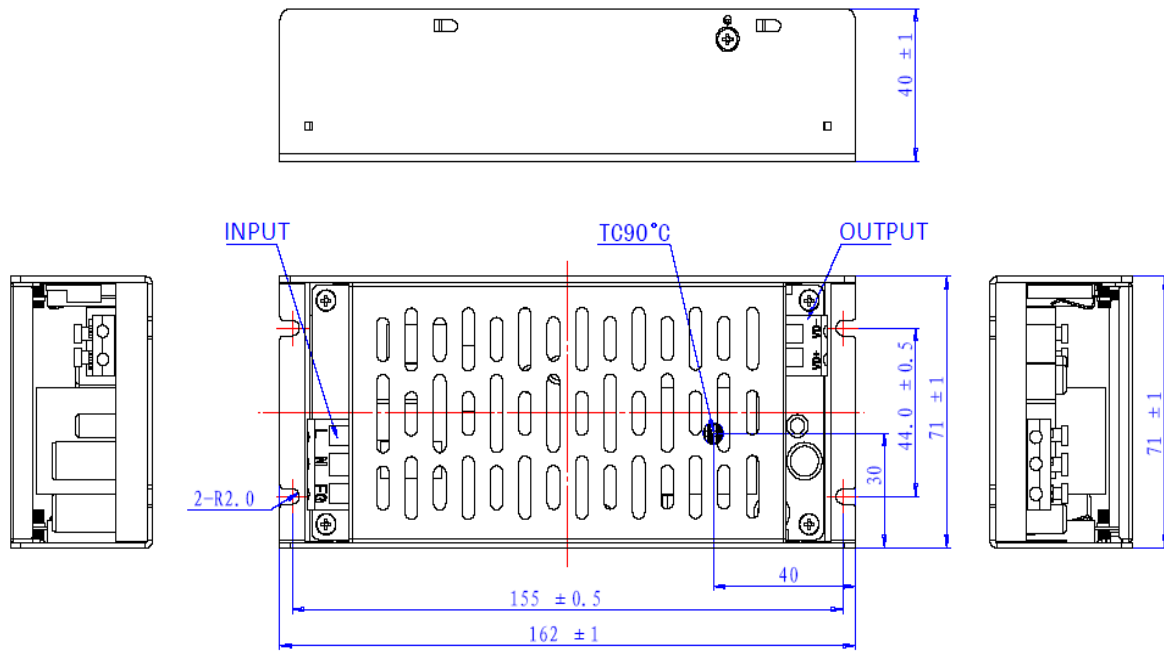


Life Time VS. Tcase (Ref.)



■ 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.

subject to change without notice

Page 3 of 3

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