



■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.96 Typ.
- High efficiency: 88% Typ.
- IP66 design for indoor or outdoor installations
- High surge immunity
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations



IP66



Class 2

Note.4

■ **Specification**

Model (PU040AxxxxAQ)		035	045	070	900	105	120	140	1660	1820	2000	2220	3330
Input	Efficiency(120Vac)(Typ.) ^{Note.1}	87.0%	87.0%	86.0%	86.0%	86.0%	86.0%	86.0%	85.0%	85.0%	84.0%	84.0%	83.0%
	Efficiency(230Vac)(Typ.) ^{Note.1}	88.0%	88.0%	87.0%	87.0%	87.0%	87.0%	87.0%	86.0%	86.0%	85.0%	85.0%	84.0%
	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.)	0.99 (Typ.) with 80%-100% load,at 120Vac											
		0.97 (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.)	0.7A at 100VAC input, 0.35A at 230VAC											
Output	Inrush Current(Max.)	15A 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											
	Leakage Current(Max.)	0.5mA at 277Vac/60Hz											
	DC Voltage (V)	114	89	54	45	36	33	29	24	22	20	18	12
	Rated Current(mA)	350	450	700	900	1050	1200	1400	1660	1820	2000	2220	3330
	Rated Power (W)	39.9	40.05	37.8	40.5	37.8	39.6	40.6	39.84	40.04	40	39.96	39.96
	Voltage Range (V)	38~114	30~89	18~54	18~45	12~36	11~33	10~29	8~24	12~22	10~20	6~18	4~12
	Ripple&Noise Current(Typ.)	<30%((PK-AV) /AV) with LED default mode and full load)											
	Current Tolerance	3%											
	Line Regulation	3%											
	Load Regulation	3%											
Protection	Current ADJ. Range	-											
	Turn on delay Time	<3s, at 120Vac; <1.5s, at 277Vac											
	Over Voltage(V)	Protection type: Voltage limiting,output will not exceed the upper limit voltage at single fault condition, recovers automatically after fault											
	Over Current	120%~150% Protection type : constant current limiting, recovers automatically after fault condition is removed.											
	Short Circuit	Constant current limiting, 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.	-30~+60°C(Refer to 'Derating Curve')											
	Tc	90°C max											
	Operating Humidity	20~95%RH non-condensing											
	Storage Temp., Humidity	-40~+85°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 & EMC	Safety Standard	UL8750, UL935, UL1012, UL1310 Class 2,CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2											
	Withstand Voltage	I/P-O/P:3.75KVAC											
	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 2KV)											
Others	MTBF	300,000 Hours,measured at full load,25°C ambient temperature											
	Lifetime	50,000 Hours at Tc 75°C(Refer to"Life Time VS. Tcase (Ref.)")											
	Dimension	95 x70x 32 (mm) (LxWxH)											
	Weight	0.32 kg											

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 ; Note.4: ~~UL Class2 incompilant model "035" "045"~~

subject to change without notice

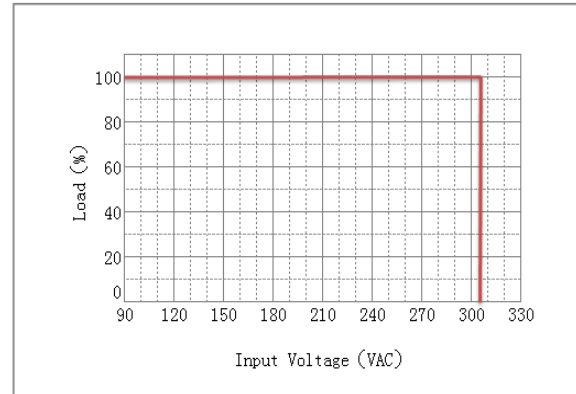
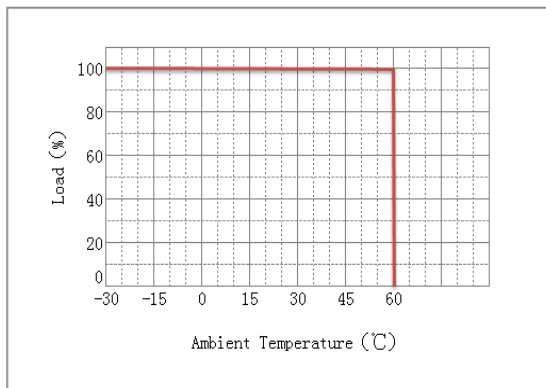
Page 1 of 3

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

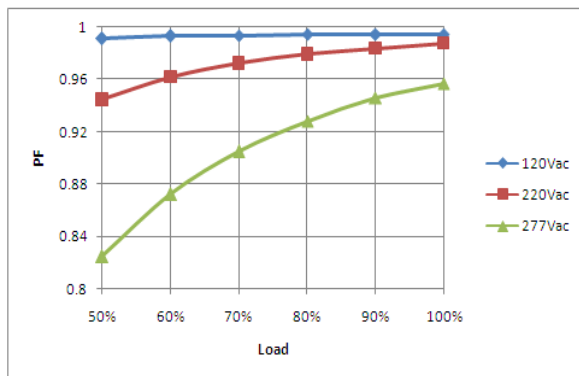
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

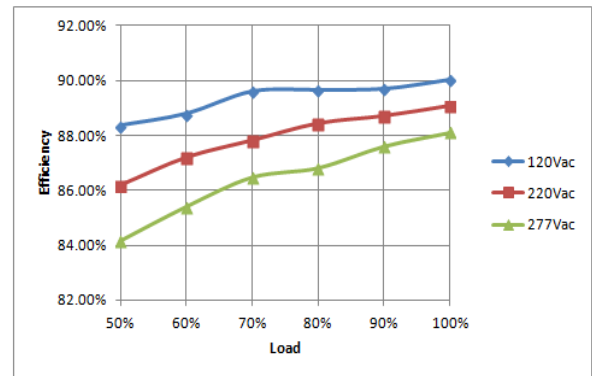
Derating Curve



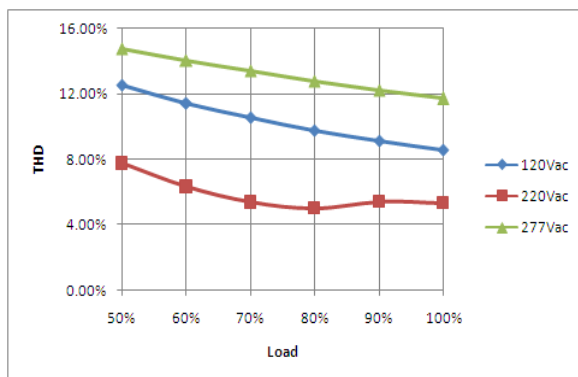
Power Factor VS. Load Curve



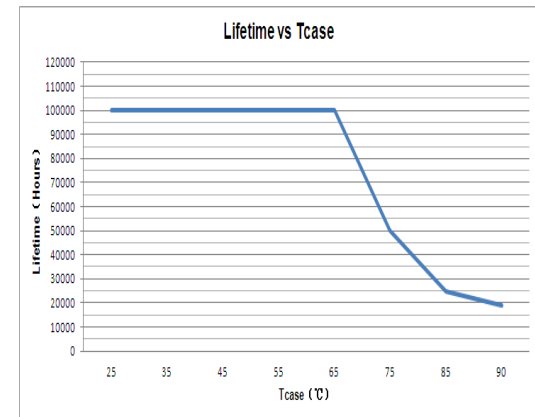
Efficiency VS. Load Curve



THD Curve

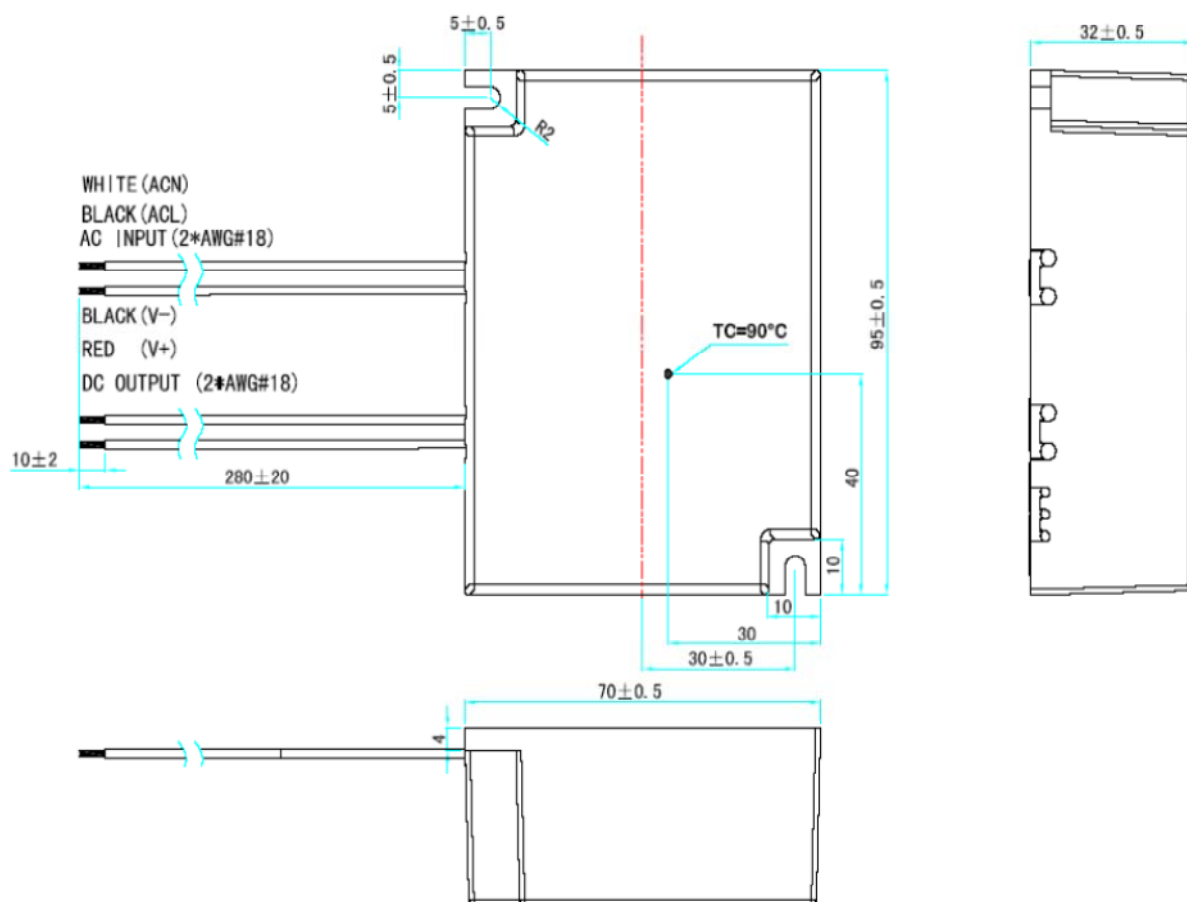


Life Time VS. Tcase (Ref.)



■ 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.