



■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.96 Typ.
- High efficiency: 87% 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

■ **Specification**

Model		009	012	018	024	036	048
(PU040AxxxAP)							
Input	Efficiency(120Vac)(Typ.) _{Note.1}	82.0%	83.0%	84.0%	85.0%	86.0%	86.0%
	Efficiency(230Vac)(Typ.) _{Note.1}	83.0%	84.0%	85.0%	86.0%	87.0%	87.0%
	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)	9	12	18	24	36	48
	Rated Current(mA)	4450	3330	2220	1670	1100	830
	Rated Power (W)	40.05	39.96	39.96	40.08	39.6	39.84
	Voltage Ripple&Noise (V) (Max.) Note.4	3	3	3	3	4	5
	Voltage Tolerance	3%					
	Line Regulation	3%					
	Load Regulation	3%					
	Current ADJ. Range	-					
Protection	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)					
Safety & EMC	Vibration	10-500Hz, 5G 12min/cycle, period for 72min each along X、 Y、 Z axes					
	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	95x70 x 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:Load condition,Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF.

subject to change without notice

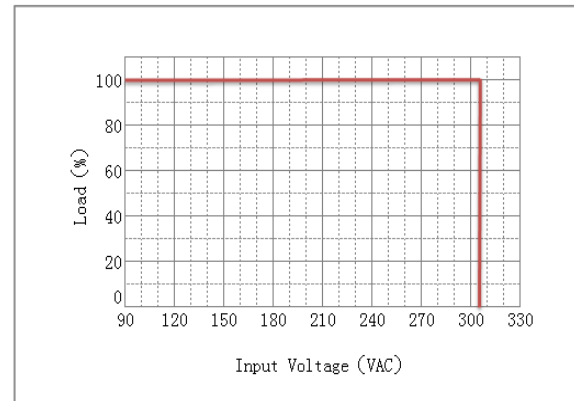
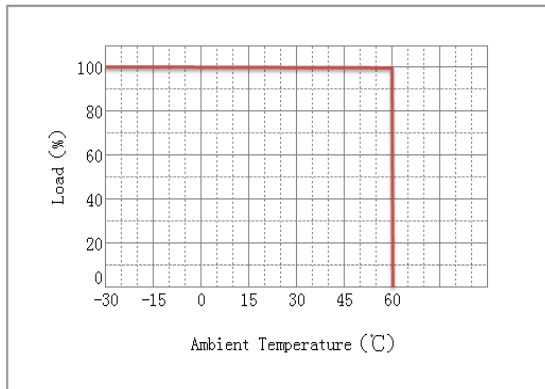
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SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

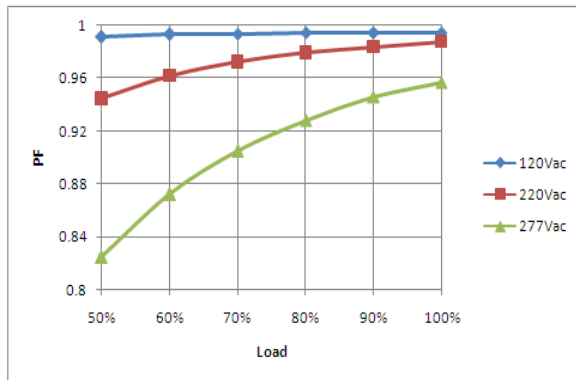
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

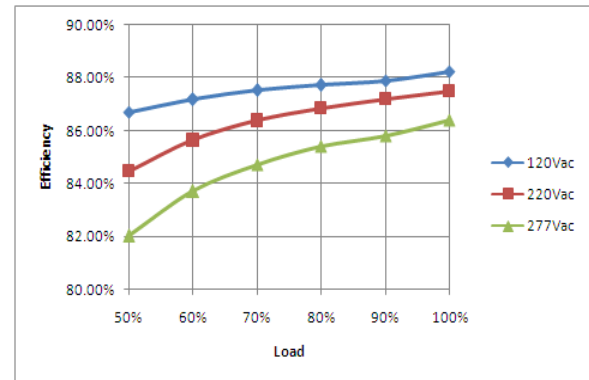
Derating Curve



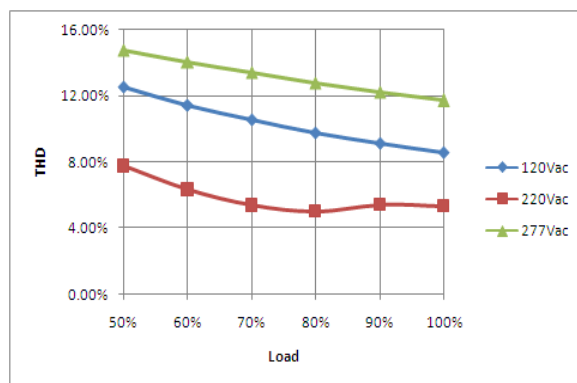
Power Factor VS. Load Curve



Efficiency VS. Load Curve



THD Curve



Life Time VS. Tcase (Ref.)

