

Customer's Part Number:

MOONS' Part Number:

UE030A027AP

Model:

P/N:

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DWG.	CHK.	STANDARD	APPD.

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- **Features**
- Input voltage: 176-305VAC
 - Built-in active PFC function: 0.92 Typ.
 - Low THD: 15% Typ
 - High efficiency: 82% Typ.
 - IP20 design for indoor
 - High surge immunity
 - Compliance to worldwide safety regulations for lighting
 - Suitable for dry location

■ **Specification**

Model		UE030A027AP
Input	Efficiency(220Vac)(Typ.) _{Note.1}	82%
	Voltage Rate (V) _{Note.2}	200Vac-240Vac
	Voltage Range (V) _{Note.2}	176 ~ 305Vac
	Frequency Range (Hz)	47~63
	Power Factor (Typ.)	0.92 with 80%~100% load, at 220Vac/50Hz
	Power Factor (Min.)	>0.90 with 80%~100% load, at 220Vac/50Hz
	THD (Typ.)	<15% with 80% ~ 100% load, at 220Vac/50Hz
	THD (Max.)	<20% with 80% ~ 100% load, at 220Vac/50Hz
	AC Current(Max.)	0.25A at 200Vac
	Inrush Current (Max.)	40A at 220Vac 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.)	0.75mA at 277Vac/60Hz
Output	DC Voltage (V)	27
	Rated Current (mA)	1100
	Min Current (mA)	10
	Rated Power (W)	30
	Voltage Ripple&Noise (mV) _{Note.4}	<400 (PK-PK) full load
	Voltage Tolerance	±3%
	Line Regulation	±3%
	Load Regulation	±3%
	Current ADJ. Range (mA)	—
	Turn on delay Time	<1.5s, at 220Vac
Protection	Over Voltage (V)	Protection type: Voltage limiting.output will not exceed the upper limit voltage at single fault condition, recovers automatically after fault condition is removed.
	Over Current	105%~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.
	Over Temperature	Protection type: Hiccup protection mode.when the inside temperature of PSU rise to 105±5°C(Typ.), the PSU will shutdown.Power needs to be restarted to work properly
Environment	Operating Temp.	-40~65°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-FG 4KV, 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	300x26x18(mm) (LxWxH)
	Weight	210g

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

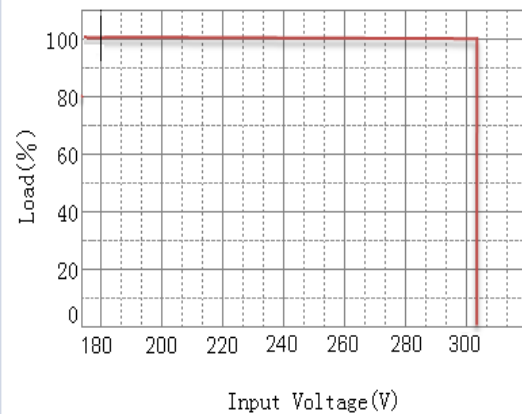
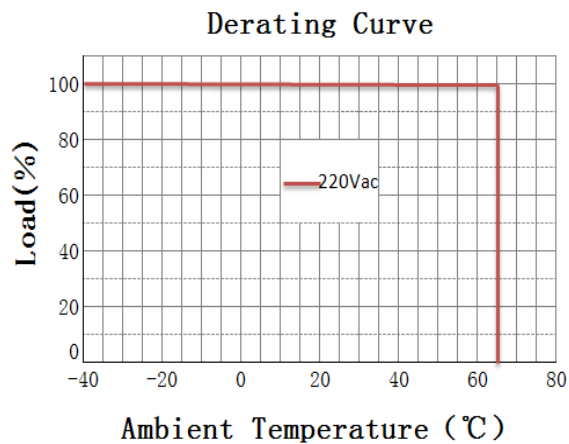
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SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

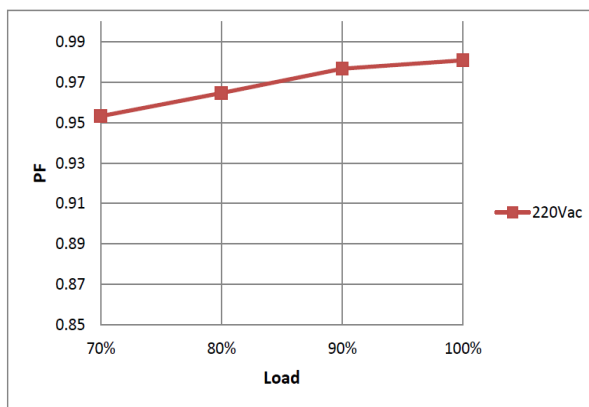
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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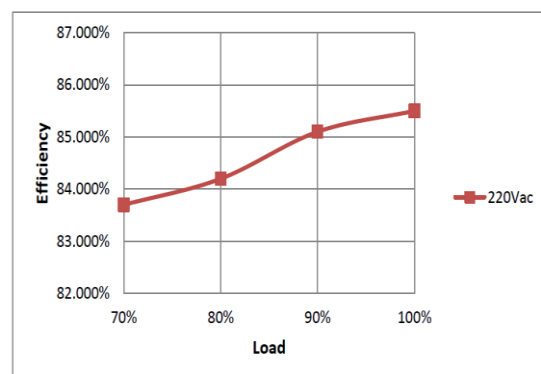
Derating Curve



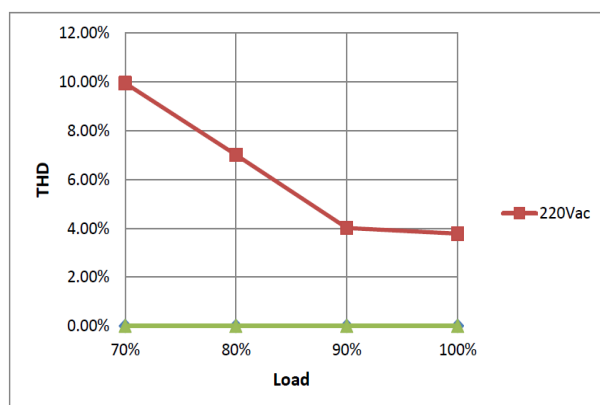
Power Factor VS. Load Curve



Efficiency VS. Load Curve

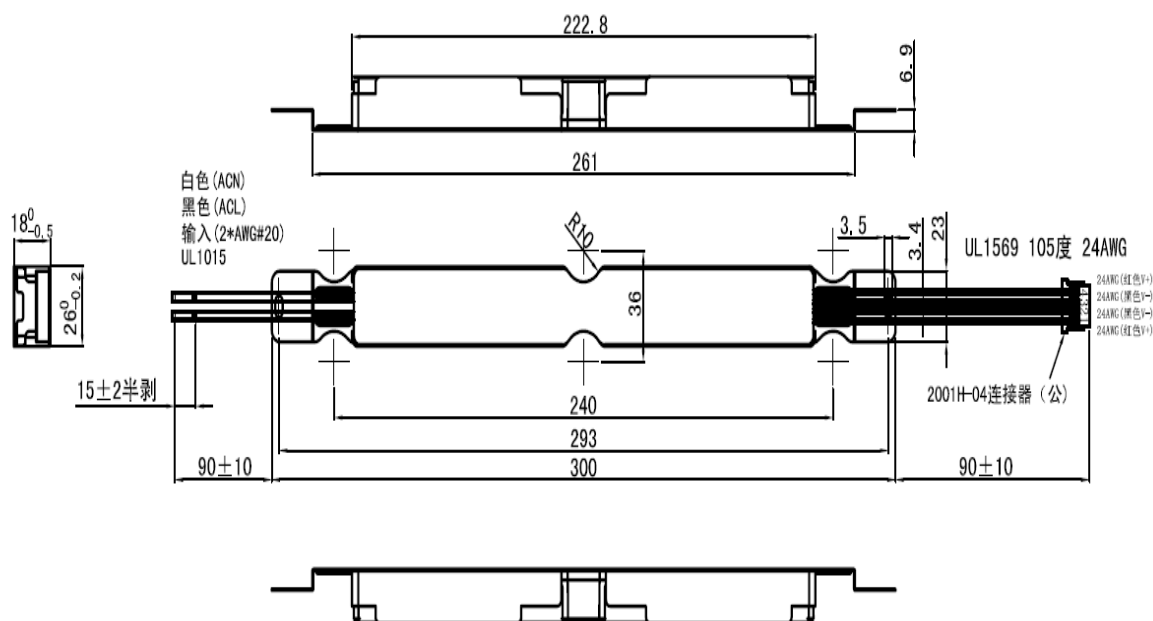


THD Curve

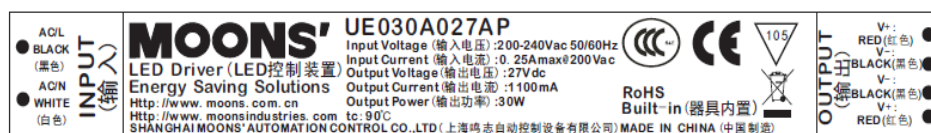


■ Mechanical Specification

Dimensions (Unit: mm)



Label



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.