

LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

UE015A027AP

Model:

P/N:

CUSTOMER'S APPROVAL STAMP

--

Please sign back after your approval. The specifications will come into force when we receive purchase order.

DWG.	CHK.	STANDARD	APPD.

- **Features**
- Input voltage: 176-305VAC
 - Built-in active PFC function: 0.92 Typ.
 - Low THD: 15% Typ
 - High efficiency: 76% Typ.
 - IP20 design for indoor
 - High surge immunity
 - Compliance to worldwide safety regulations for lighting
 - Suitable for dry location

■ **Specification**

Model		UE015A027AP
Input	Efficiency(220Vac)(Typ.) _{Note.1}	76%
	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(Typ.)	0.15A at 200Vac
	Inrush Current (Max.)	40A at 220Vac input 25℃ 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
Output	DC Voltage (V)	27
	Rated Current (mA)	556
	Min Current (mA)	10
	Rated Power (W)	15
	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	The power supply shall return to normal operationafter over temperature is removed.
Environment	Operating Temp.	-40~65℃
	Tc	90℃ max
	Operating Humidity	20~95%RH non-condensing
	Storage Temp., Humidity	-40~+85℃, 10~95%RH
	Temp. Coefficient	0.03%/℃ (0~50℃)
	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℃/70%RH
	EMC Emission	EN55015/FCC Part 15 Class B, EN61000-3-2 Class A, 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℃ ambient temperature
	Lifetime	50,000 Hours at Tc 75℃(Refer to"Life Time VS. Tcase (Ref.)")
	Dimension	230x24x17(mm) (LxWxH)
	Weight	160g

Note.1: Measured at full load and steady-state temperature in 25℃ 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 220VAC input , rated load and 25℃ 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

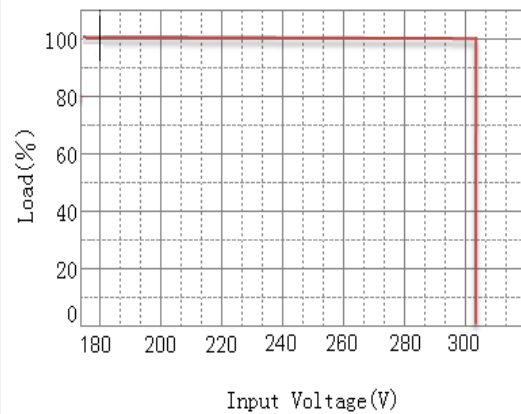
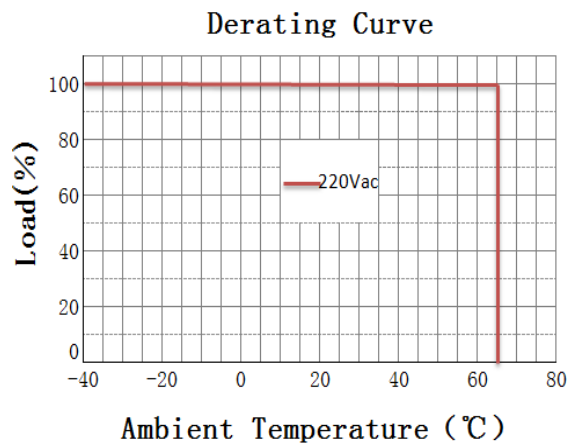
Page 3 of 5

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

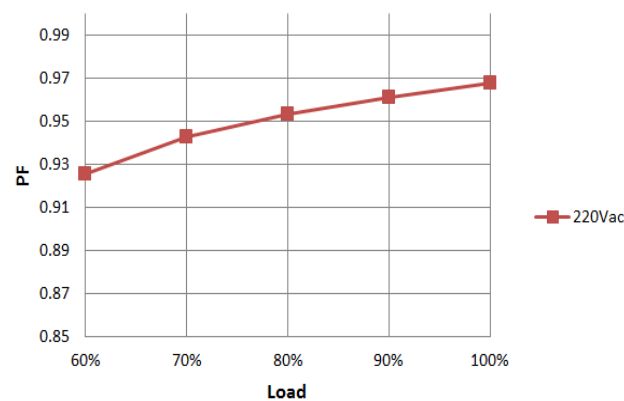
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

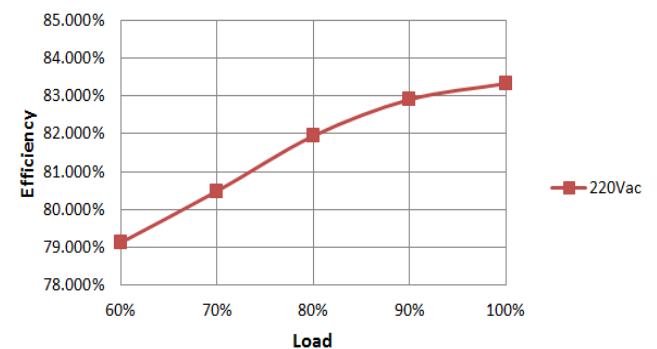
Derating Curve



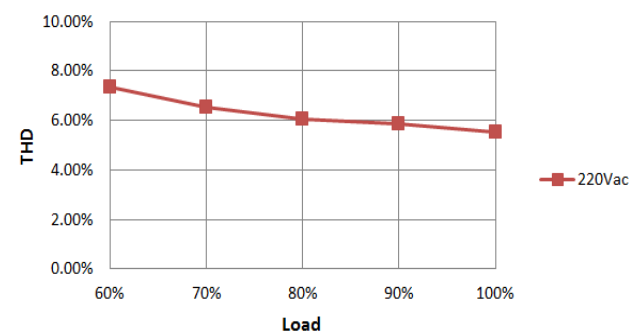
Power Factor VS. Load Curve



Efficiency VS. Load Curve



THD Curve

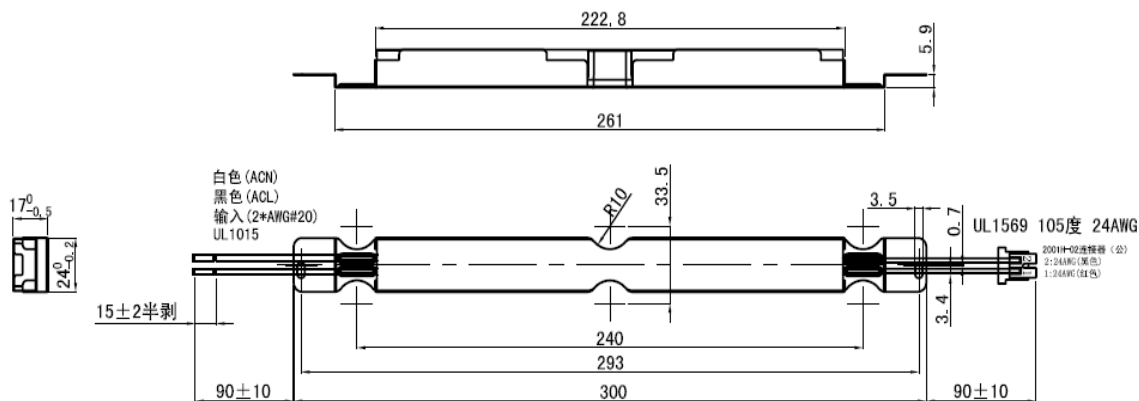


SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

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

■ Mechanical Specification

Dimensions (Unit: mm)



Label

● AC/L BLACK (黑色) ● AC/N WHITE (白色) INPUT (输入)	MOONS' LED Driver (LED控制装置) Energy Saving Solutions Http://www.moons.com.cn Http://www.moonsindustries.com SHANGHAI MOONS' AUTOMATION CONTROL CO.,LTD (上海鸣志自动控制设备有限公司)	UE015A027AP Input Voltage (输入电压): 200-240Vac 50/60Hz Input Current (输入电流): 0.15Amax@200Vac Output Voltage (输出电压): 27Vdc Output Current (输出电流): 556mA Output Power (输出功率): 15W tc:90°C	CCC CE 105 RoHS Built-in (器具内置)	OUTPUT (输出) V-: BLACK (黑色) V+: RED (红色)
---	---	--	--	--

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.