

LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

4696350004537

Model:

PU030H070AQ1

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

[illegible]

■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.99 Typ.
- Low THD: 15% Typ.
- High efficiency: 88% Typ.
- IP66 design for indoor or outdoor installations
- High surge immunity
- Compliance to worldwide safety regulations for lighting

■ **Specification**

PU030H070AQ1

Input	Efficiency(120Vac) ^{Note.1}	86%(Typ.) with full load
	Efficiency(220Vac) ^{Note.1}	88%(Typ.) with full load
	Voltage Range (V) ^{Note.2}	90 ~ 305Vac, OR 127~ 300Vdc
	Voltage Rated (V) ^{Note.2}	100-277Vac
	Frequency Range (Hz)	47~63
	Power Factor	0.99 (Typ.)with 80% load,at 120Vac
		0.97(Typ.) with 80% load,at 220Vac
		>0.9 with 80% load, at 100~240Vac
	THD	10% (Typ.), at 220Vac input, with 80%~100% load conditions
	AC Current(Max)	<20% with 80%l load, at 100~240Vac
Output	Inrush Current(Max.)	0.4A at 100VAC input, 0.2A at 230VAC
	Leakage Current(Max.)	30A at 230Vac 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)
	Output Voltage range (V)	0.5mA at 277Vac/60Hz
	Rated Current(mA)	30-43
	Rated Power (W)	700
	Ripple Current	30
	Current Tolerance	<10%((PK-AV)/AV) full load)
	Line Regulation	5%
	Load Regulation	5%
	Turn on delay Time	<1.2s, at 120Vac; <0.75s, at 230Vac
Protection	Over Voltage(V)	<75
	Over Current	Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.
	Short Circuit	-
Environment	Operating Temp.	Protection type: Hiccup mode. recovers automatically after short is removed.
	Tc	-40~+60°C(Refer to 'Derating Curve' , -60°C can start up within 40 seconds,the output current should be stablized within 5 minutes)
	Operating Humidity	90℃ max
	Storage Temp., Humidity	20~95% RH non-condensing
	Temp. Coefficient	-60~+85℃ , 10-95%RH
	Vibration	0.03%/°C (0~50℃)
Safety & EMC	Safety Standard	10-500Hz,5G 12min/cycle , period for 72min each along X、Y、Z axes
	Withstand Voltage	UL8750, IEC61347-1,IEC61347-2-13
	Isolation Resistance	I/P-O/P:3.75KVAC
	EMC Emission	I/P-O/P:100M Ohms (500VDC/25℃/70%RH)
	EMC Immunity	EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3
Others	MTBF	EN61000-4-2,3,4,5,6,8,11, EN61547,Surge Immunity Test:Level 4(Line to Neutral: ±2kV)
	Lifetime	300,000 Hours,measured at full load,25℃ ambient temperature
	Dimension	-
	Weight(Typ.)	80 x 78 x 27 (mm) (LxWxH)
		0.18 kg

Note.1: Measured at full load and steady-state temperature in 25℃ ambient; 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℃ ambient temperature ;

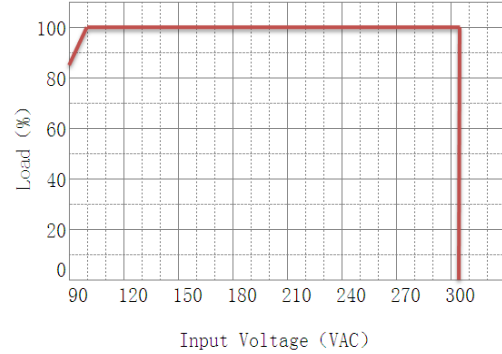
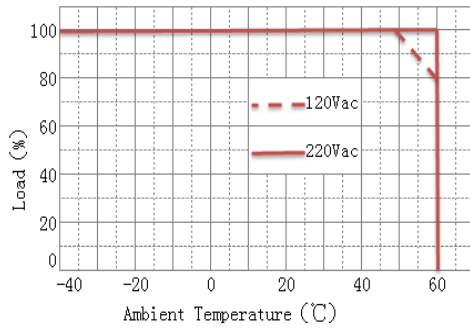
subject to change without notice

Page 3 of 5

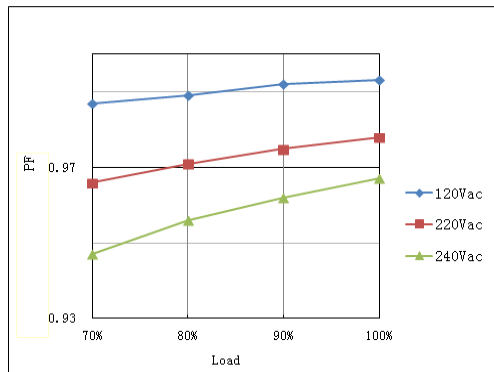
SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.

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

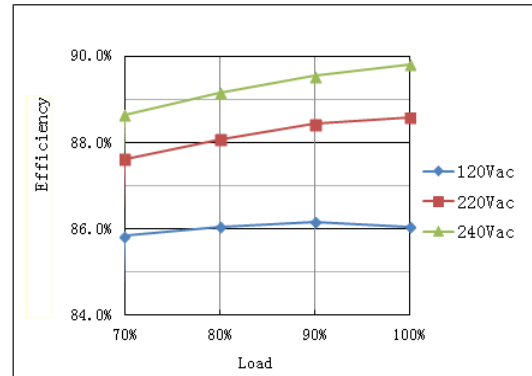
Derating Curve



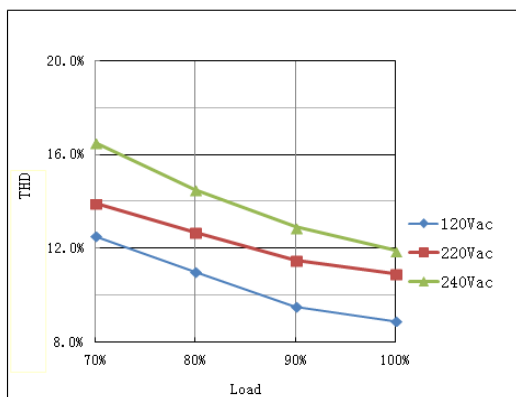
Power Factor VS. Load Curve



Efficiency VS. Load Curve

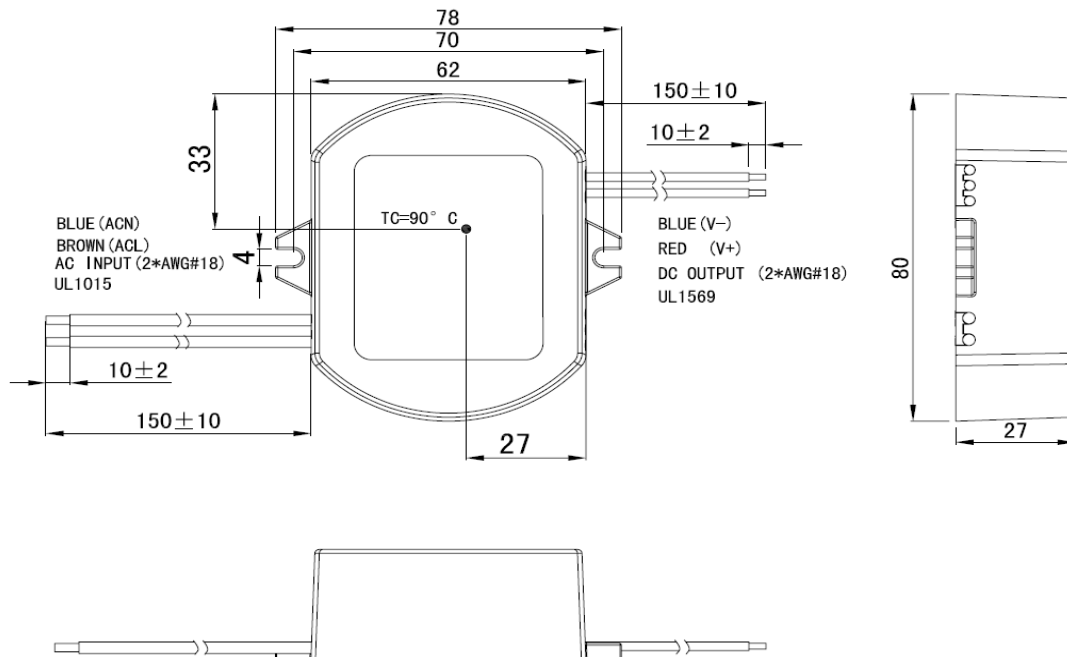


THD Curve

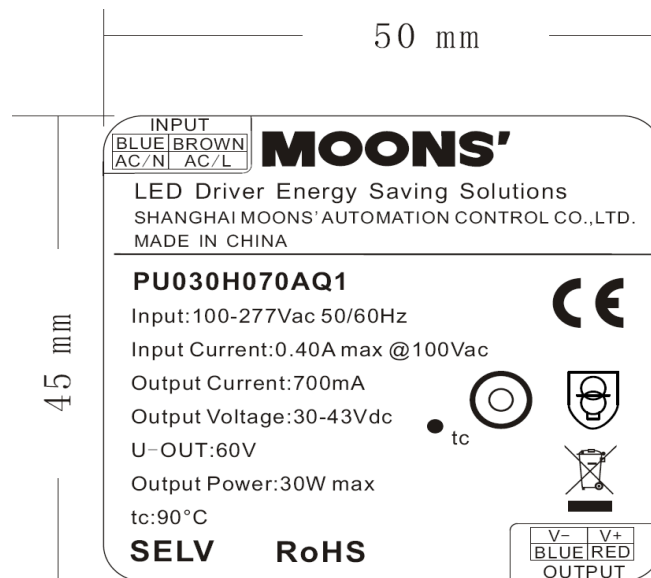


■ Mechanical Specification

Dimensions (Unit: mm)



■ Nameplate



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.