

LED DRIVER SPECIFICATIONS

Customer's Part Number:

MOONS' Part Number:

Model:

PU025HXXAQ

P/N:

CUSTOMER'S APPROVAL STAMP

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

DWG	CHK.	APPD.

Rev.	Date	Contents	ECO NO.	DWG	CHK	APPR
A0	2015/11/10					



■ Features

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.99 Typ.
- Low THD: 10% Typ.
- High efficiency: 89% Typ.
- IP66 design for indoor installations
- High surge immunity
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations



■ Specification

Model		035	045	050	053	070	105	120	140	175	210
(PU025HXXXAQ)											
Input	Efficiency (120Vac)(Typ.) _{Note.1}	88%	87%	86%	86%	86%	85%	84%	83%	82%	81%
	Efficiency (230Vac)(Typ.) _{Note.1}	89%	88%	87%	87%	87%	86%	85%	84%	83%	82%
	Voltage Range (V) _{Note.2}	90 ~ 305Vac, OR 127~ 430Vdc									
	Voltage Rated (V) _{Note.2}	100Vac-277Vac									
	Frequency Range (Hz)	47~63									
	Power Factor	0.99 (Typ.), with 85%~100% load, at 120Vac									
		0.97 (Typ.), with 85%~100% load, at 230Vac									
		0.9 (Min.), with 85%~100% load, at 277Vac									
	THD	10% (Typ.), at 220Vac input, with 80%~100% load conditions									
		15% (Typ.), at 110/277Vac input, with 80%~100% load conditions									
Output	AC Current (Max.)	0.4A at 100VAC input, 0.2A at 230VAC									
	Inrush Current (Max.)	15A 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)									
	Leakage Current (Max.)	0.5mA at 277Vac/60Hz									
	Voltage Range (V)	36~72	28~55	25~50	24~48	18~36	12~24	10~21	9~18	7~14	6~12
	Rated Current (mA)	350	450	500	530	700	1050	1200	1400	1750	2100
	Rated Power (W)	25.2	24.75	25	25.4	25.2	25.2	25.2	25.2	24.5	25.2
	Ripple Current((PK-AV)/AV) with LED default mode full load(Typ.)	<25%	<25%	<30%	<30%	<30%	<30%	<35%	<35%	<40%	<40%
	Current Tolerance	5%									
	Line Regulation	5%									
	Load Regulation	5%									
Protection	Current ADJ. Range	-									
	Turn on Delay Time	<1.2s, at 120Vac; <0.75s, at 230Vac									
	Over Voltage (V)	90	60	58	56	42.4	32	25	25	22	18
Environment	Short Circuit	Protection type : Limit the output voltage , recovers automatically after fault condition is removed									
	Hiccup mode	Hiccup mode, recovers automatically after fault condition is removed.									
	Operating Temp.	-40~+60℃(Refer to 'Derating Curve')									
	Tc	90℃ max									
	Operating Humidity	20~95%RH									
	Storage Temp., Humidity	-40~+85℃ , 10-95%RH									
	Temp. Coefficient	0.03%/℃ (0~50℃)									
Safety & EMC	Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes									
	Safety Standard	UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91, EN61347-1, EN61347-2-13									
	Withstand Voltage	I/P-O/P:3.75KVac									
	Isolation Resistance	I/P-O/P:100M Ohms/500Vdc/25℃/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℃ ambient temperature									
	Lifetime	50,000 Hours at Tc 75℃ (Refer to"Life Time VS. Tcase (Ref.)")									
	Dimension	80 x 78x 27 (mm) (LxWxH)									
	Weight (Typ.)	0.18kg									

Note.1: Measured at full load and steady-state temperature in 25℃ ambient; Note. 2: Derating may be needed under low input voltage, Please refer to 'Derating Curve' ; Note. 3: All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ ambient temperature;

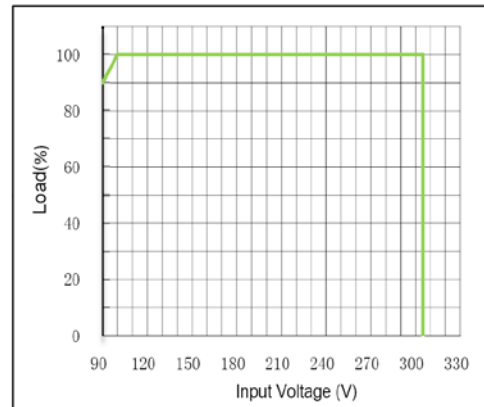
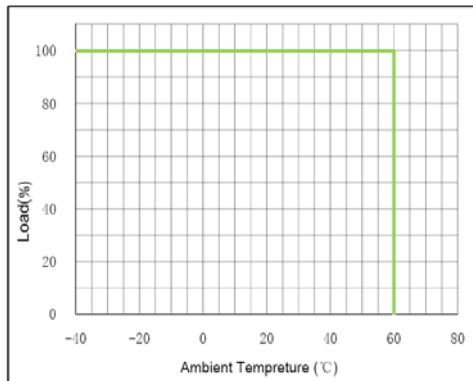
subject to change without notice

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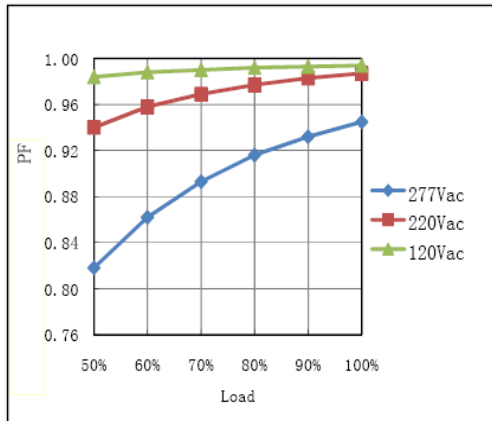
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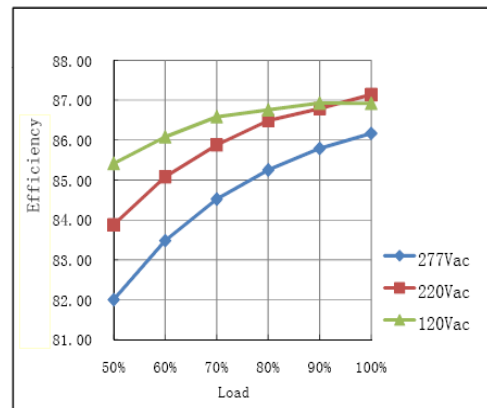
Derating Curve



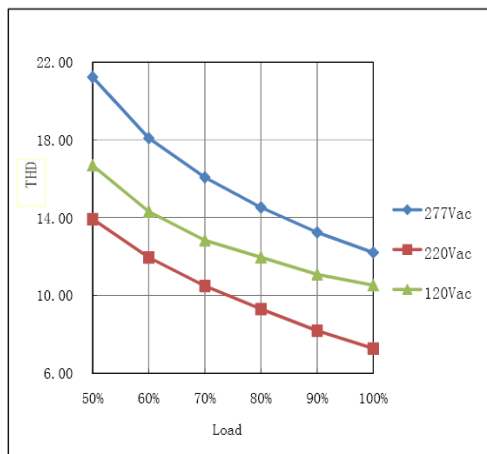
Power Factor VS. Load Curve(Model:700mA)



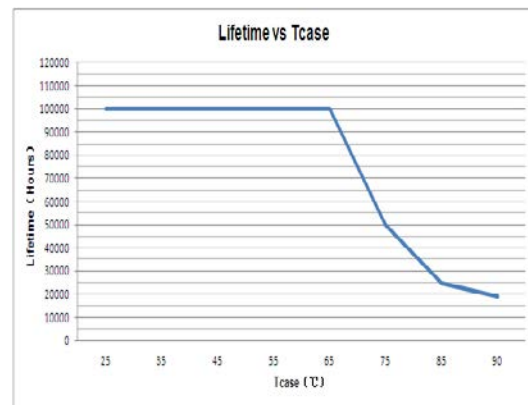
Efficiency VS. Load Curve(Model:700mA)



THD Curve(Model:700mA)

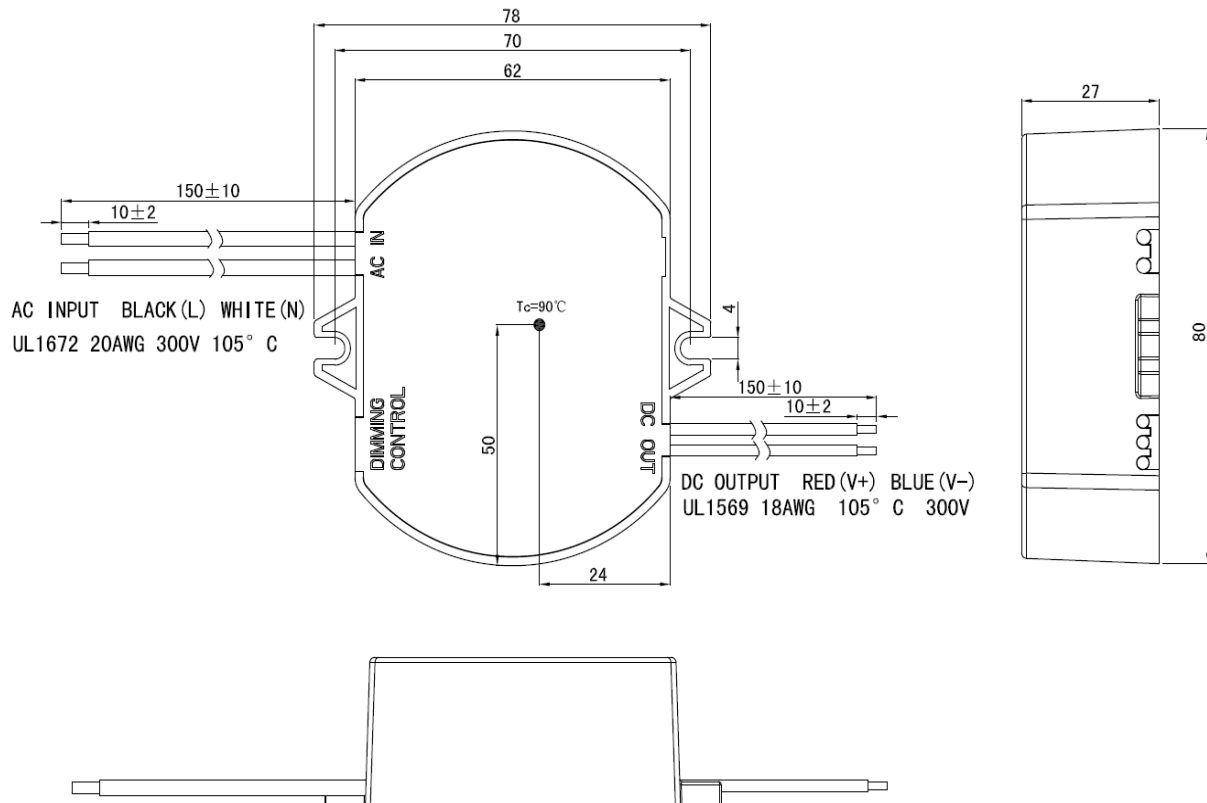


Life Time VS. Tcase (Ref.)



■ 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.