

■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.99 Typ.
- Low THD: 15% Typ.
- High efficiency: 86% Typ.
- IP66 design for indoor installations
- High surge immunity
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations

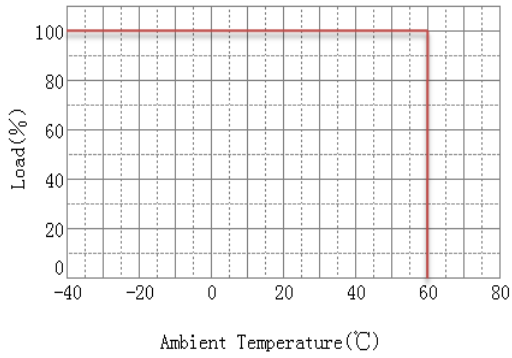


■ **Specification**

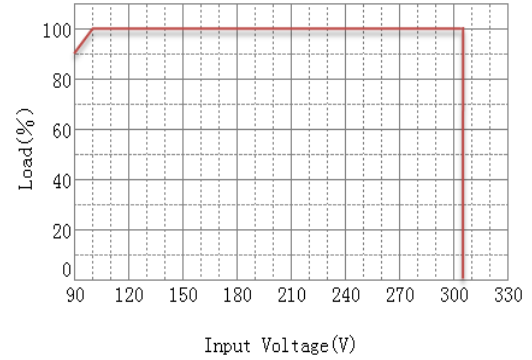
Model		025	030	035	045	070	100	
(PU012HXXXAQ)								
Input	Efficiency (120Vac)(Typ.) <sup>Note.1</sup>	85%	84%	84%	83%	82%	80%	
	Efficiency (230Vac)(Typ.) <sup>Note.1</sup>	86%	85%	85%	84%	83%	81%	
	Voltage Range (V) <sup>Note.2</sup>	90 ~ 305Vac						
	Voltage Rated (V) <sup>Note.2</sup>	100Vac-277Vac						
	Frequency Range (Hz)	47-63						
	Power Factor		0.99 (Typ.) with 80%-100% load, at 120Vac					
			0.96 (Typ.) with 80%-100% load, at 230Vac					
			>0.9 with 80%-100% load, at 277Vac					
	THD	<15% with 80%~100% load, at 100Vac-277Vac						
	AC Current (Max.)	<20% with 50%-100% load, at 100Vac-277Vac						
Inrush Current (Max.)	0.2A at 100Vac input, 0.1A at 230Vac							
Leakage 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 than 0.2ms)							
Output	Voltage Range (V)	0.5mA at 277Vac /60Hz						
	Rated Current (mA)	24-48	18-36	18-36	13-27	8-17	6-12	
	Rated Power (W)	250	300	350	450	700	1000	
	Ripple&Noise Current( (PK-AV)/AV) with LED default mode full load(Typ.)	12	10.8	12.6	12.15	11.9	12	
	Current Tolerance	<40%	<40%	<50%	<50%	<50%	<50%	
	Line Regulation	7%	7%	7%	6%	6%	5%	
	Load Regulation	5%						
	Turn on Delay Time	5%						
Protection	Over Voltage (V)	60	54	54	42	36	32	
	Short Circuit	Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is removed. No damage shall occur when any output operating in a short circuit condition.The power supply shall be self-recovery when the fault is removed.						
Environment	Operating Temp.	-40~+60°C( Refer to 'Derating Curve' )						
	Tc	90°C max						
	Operating Humidity	20~95%RH						
	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, UL1310, 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°C/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 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	85 x 36x 23 (mm) (LxWxH)						
	Weight (Typ.)	100g						

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 voltage, 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;

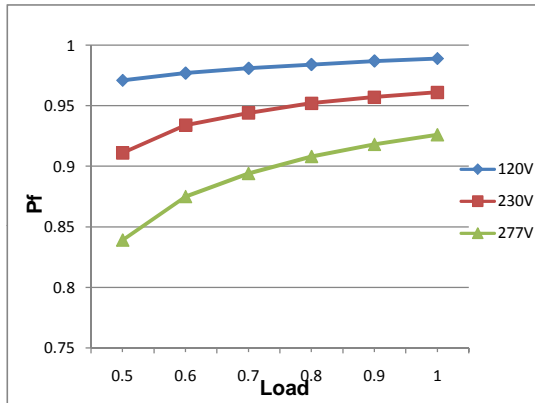
**Derating Curve**



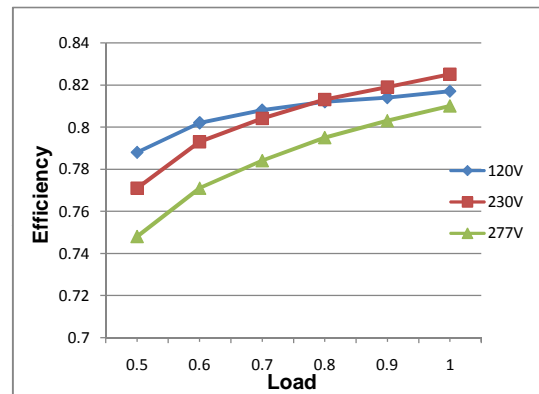
**Derating Curve**



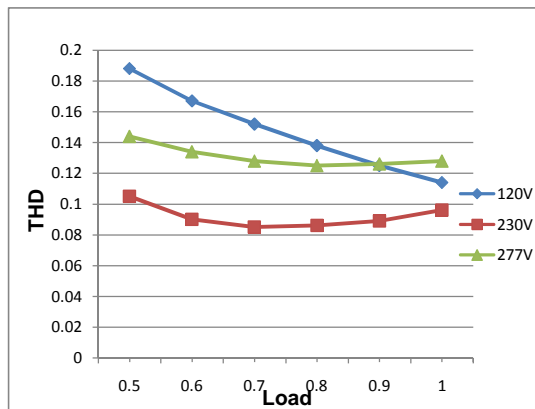
**Power Factor VS. Load Cur (700mA)**



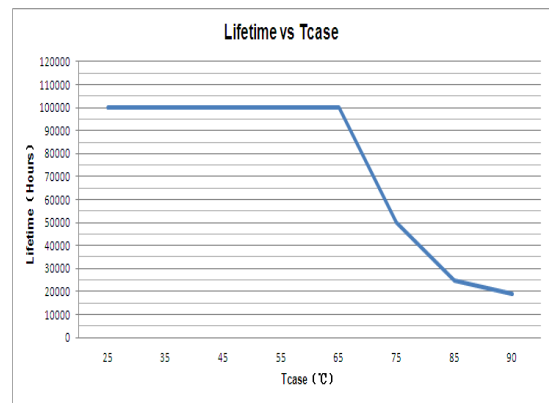
**Efficiency VS. Load Curve (700mA)**



**THD Curve VS. Load Curve (700mA)**

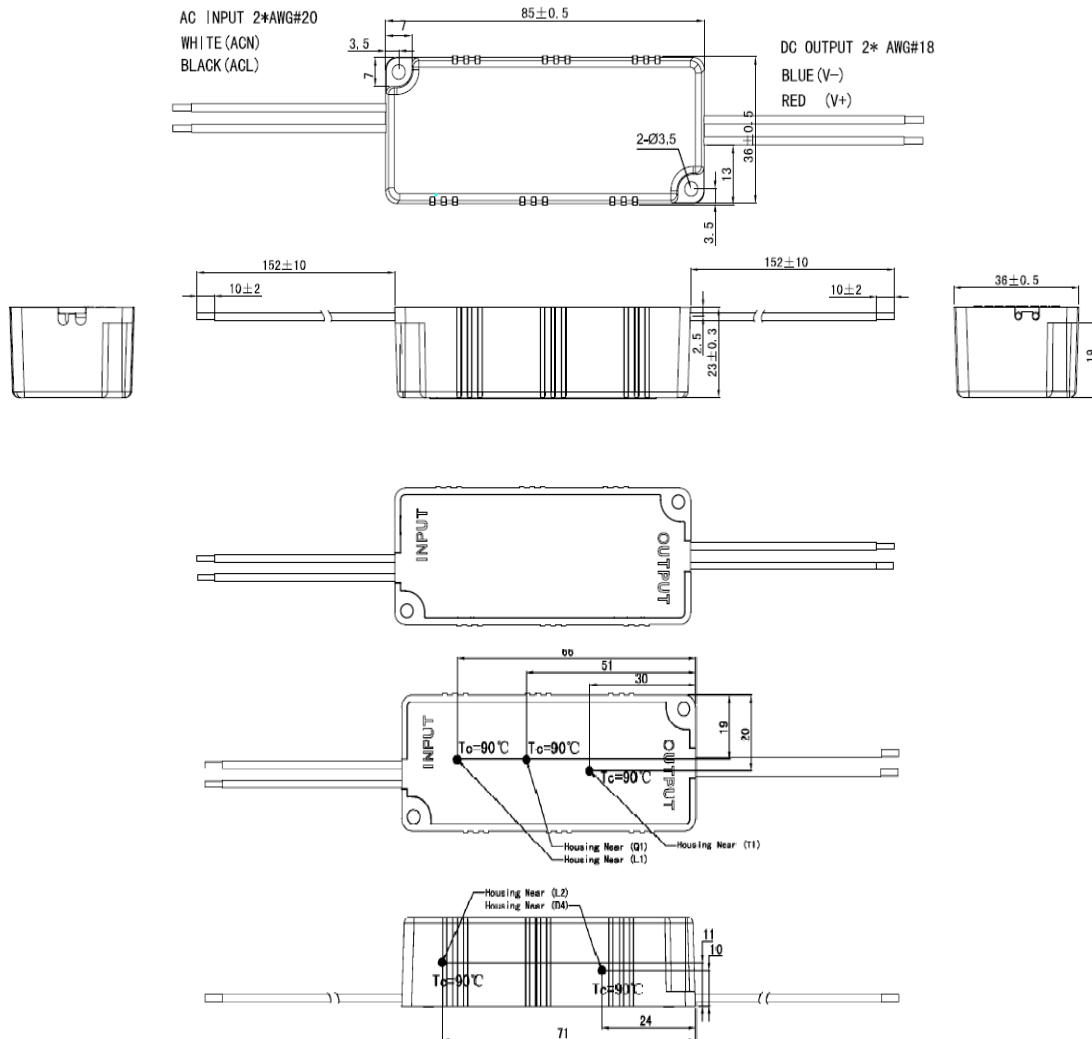


**Life Time VS. Tcase (Ref.)**

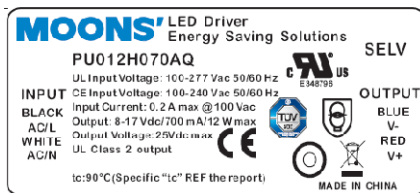


■ Mechanical Specification

Dimensions (Unit: mm)



■ Nameplate(700mA model only for reference)



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.