



■ Features

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.99 Typ.
- Low THD: 10% Typ.
- High efficiency: 91% Typ.
- IP67 design for indoor or outdoor installations
- High surge immunity
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations



Class 2

Note.4



■ Specification

Model	035	045	053	070	105	140	175	210	245	280	315	350	420	500	
(MU075HXXXAQ)															
Efficiency(110Vac)(Typ.) ^{Note.1}	90%	90%	89%	89%	89%	88%	88%	87%	87%	86%	86%	85%	85%	84%	
Efficiency(220Vac)(Typ.) ^{Note.1}	91%	91%	90%	90%	90%	89%	89%	88%	88%	87%	87%	86%	86%	85%	
Voltage Range (V) ^{Note.2}	90 ~ 305Vac, OR 127~ 430Vdc (Derating may be need under low inputs, Refer to 'Derating Curve')														
Voltage Rate (V) ^{Note.2}	100Vac-277Vac														
Frequency Range (Hz)	47~63														
Input	0.99 (Typ.) with 70%~100% load,at 110Vac														
	0.96 (Typ.) with 70%~100% load,at 220Vac														
	>0.9 with 75%~100% load,at 277Vac														
THD(Typ.)	10% Typical, at 220Vac input, with 70%~100% load conditions														
	15% Typical, at 110/277Vac input, with 70%~100% load conditions														
	AC Current(Typ.)														
Inrush Current(Max.)	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 0.2														
Leakage Current(Max.)	0.75mA at 277Vac/60Hz														
Output	Voltage range (V)	107~214	83~166	71~142	54~108	36~72	27~54	21~43	18~36	15~31	13~27	12~24	10~20	9~18	7~15
	Rated Current(mA)	350	450	530	700	1050	1400	1750	2100	2450	2800	3150	3500	4200	5000
	Rated Power (W)	74.90	74.70	75.26	75.60	75.60	75.60	75.25	75.60	75.95	75.60	75.60	75.00	75.60	75.00
Protection	Ripple&Noise Current (Typ.)	≤30%((PK-AV) /AV) with LED default mode and full load)													
	Current Tolerance ^{Note.5}	±5%													
	Line Regulation	±1%													
Environment	Load Regulation	±3%													
	Current ADJ. Range	10% to 100%, continuously adjustable													
	Turn on delay Time	<1.5s, at 110Vac; <0.75s, at 220Vac													
Protection	Over Voltage(V)	217	180	146	112	76	57	46	39	34	30	27	23	21	18
	Protection type : Limit the output voltage , recovers automatically after fault condition is removed														
	Over Current	Protection type : constant current limiting, recovers automatically after fault condition is removed													
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.													
Environment	Over temperature	When the Tc of PSU rise to 110°C(Typ.), the PSU will shutdown													
	The power supply should resume its normal operation when the inside temperature of PSU drop to normal temperature														
	Operating Temp.	-40~+70°C (Refer to 'Derating Curve')													
Safety & EMC	Tc	90°C max													
	Operating Humidity	20~95%RH													
	Storage Temp., Humidity	-40~+80°C , 10~95%RH													
UL Level	Temp. Coefficient	0.03%/°C (0~50°C)													
	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													
Others	Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.875KV, O/P-FG:1.5KV													
	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													
UL Level	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 4KV, L/N-Earth 6KV)													
	UL,CUL class 2														
	NON-UL,NON-CUL class 2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
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	173 x 67.5 x 40 (mm) (LxWxH)													
	Weight	0.82kg													

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 to 'Derating Curve'; Note. 3: All parameters NOT specially mentioned are measured at 220VAC input , rated load and 25°C of ambient temperature ; Note.4: see UL Level; Note.5: Includes set and load regulation.

subject to change without notice

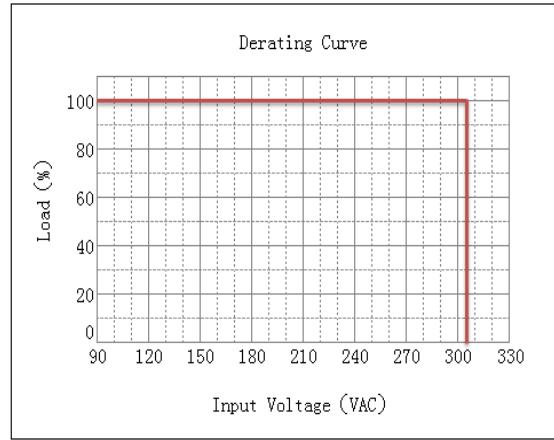
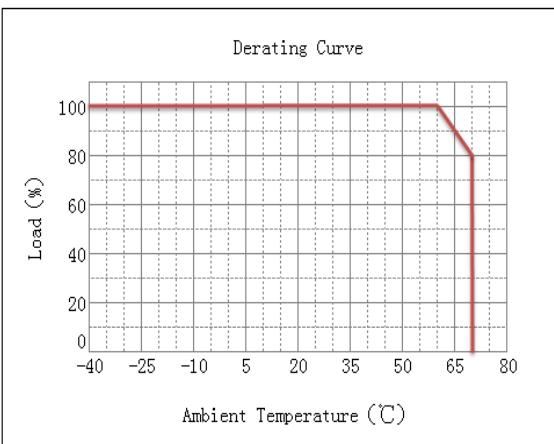
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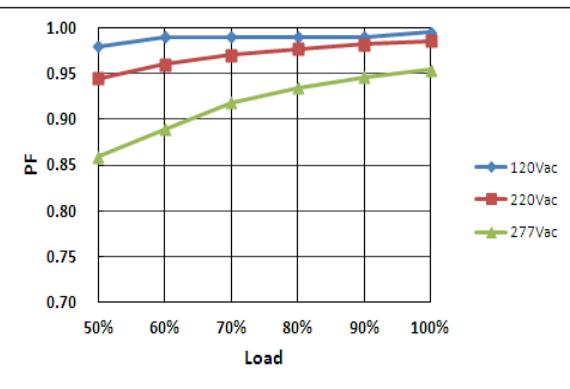
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

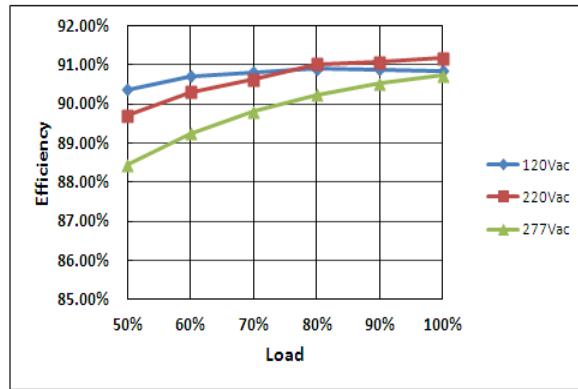
Derating Curve



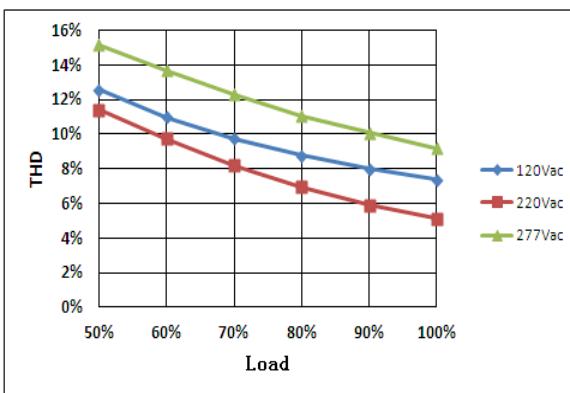
Power Factor VS. Load Curve



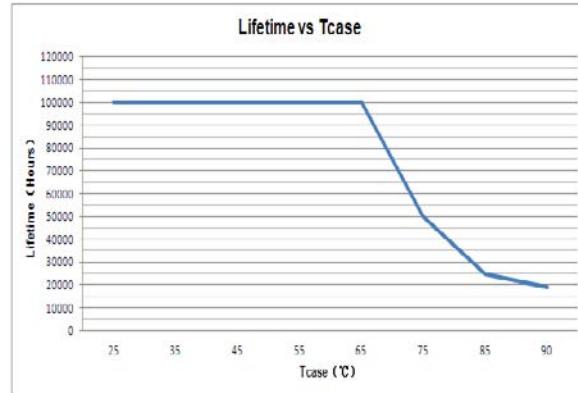
Efficiency VS. Load Curve



THD Curve

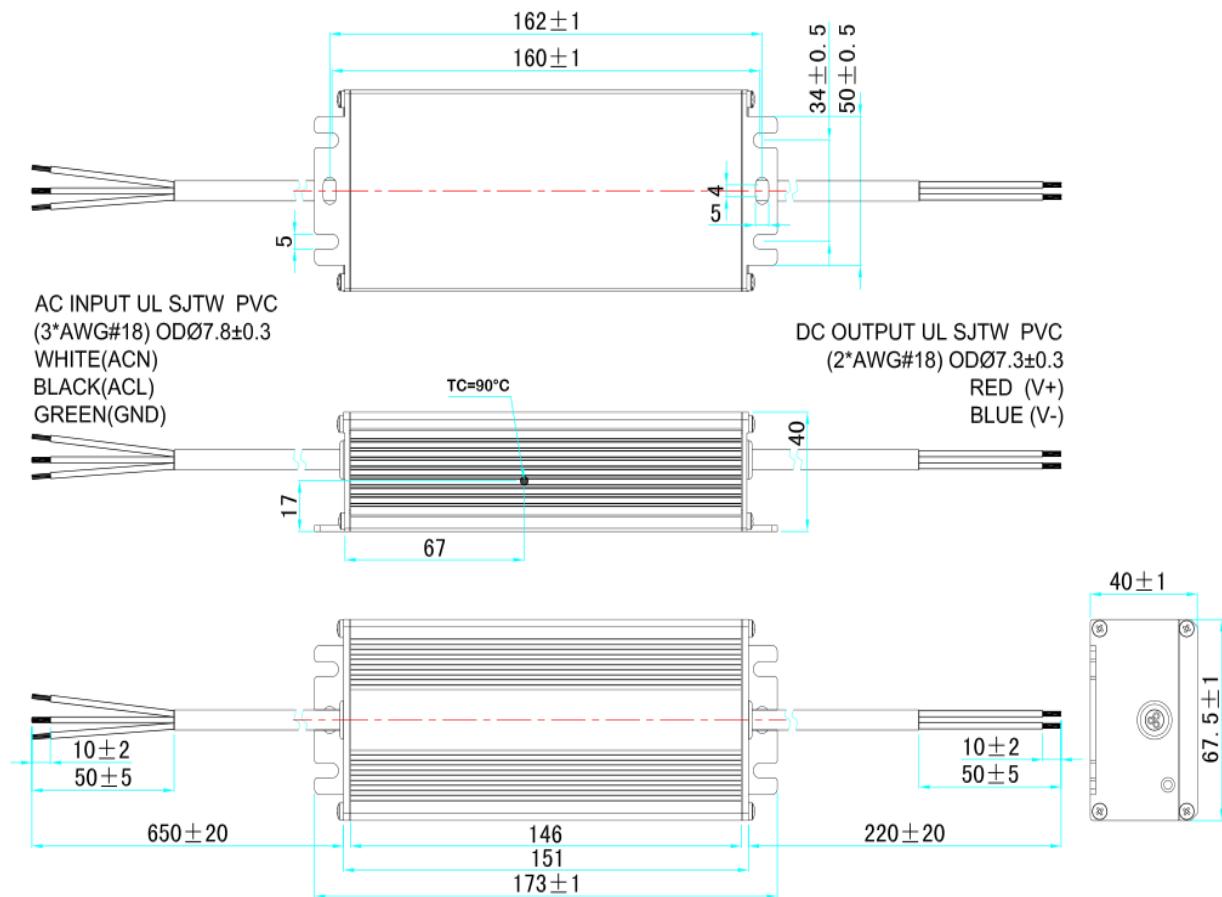


Life Time VS. Tcase (Ref.)



■ Mechanical Specification

1. 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.

2. Terminal wire Type

Products	AC Input			DC output		
	Wire Type	Assignment	Description	Wire Type	Assignment	Description
UL approval	UL SJTW PVC	BLACK/L WHITE/N GREEN/G	3*AWG#18	UL SJTW PVC	RED/+ BLUE/-	2*AWG#18