



■ **Features**

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



■ **Specification**

Model		035	045	053	070	085	105	120	140	175	210
(MU035HXXXAQ)											
Input	Efficiency (120Vac)(Typ.) _{Note.1}	90%	89%	88%	87%	87%	87%	87%	86%	86%	85%
	Efficiency (230Vac)(Typ.) _{Note.1}	91%	90%	89%	88%	88%	88%	88%	87%	87%	86%
	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									
	AC Current (Max.)	0.5A at 100VAC input, 0.2A at 230VAC									
Output	Inrush Current (Max.)	50A 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.)	0.75mA at 277Vac/60Hz									
	Voltage Range (V)	50~100	39~78	33~66	25~50	21~41	16~33	15~29	13~25	10~20	9~17
	Rated Current (mA)	350	450	530	700	850	1050	1200	1400	1750	2100
	Rated Power (W)	35.0	35.1	35.0	35.0	34.9	34.7	34.8	35.0	35.0	35.7
	Ripple Current((PK-AV)/AV) with LED default mode full load(Typ.)	≤20%	≤20%	≤25%	≤25%	≤25%	≤30%	≤30%	≤30%	≤35%	≤35%
	Current Tolerance	5%									
	Line Regulation	5%									
	Load Regulation	5%									
	Current ADJ. Range	-									
Protection	Turn on Delay Time	<1.5s, at 120Vac; <0.75s, at 230Vac									
	Over Voltage (V)	<119	<90	<75	<60	<50	<40	<38	<35	<30	<26
	Short Circuit	Protection type : Limit the output voltage , recovers automatically after fault condition is removed									
Environment	Over Temperature	When the Tc of PSU rise to 110℃(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℃(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, I/P-FG:1.875kVac, O/P-FG:1.5kVac									
	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 C, EN61000-3-3									
Others	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N 4kV, L/N-Earth 6kV)									
	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	193 x 42.5 x 34.5 (mm) (LxWxH)									
Weight (Typ.)		0.55kg									

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

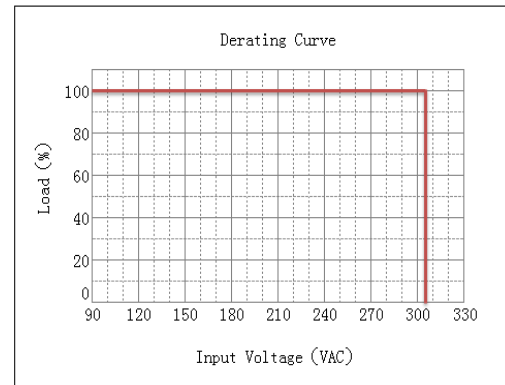
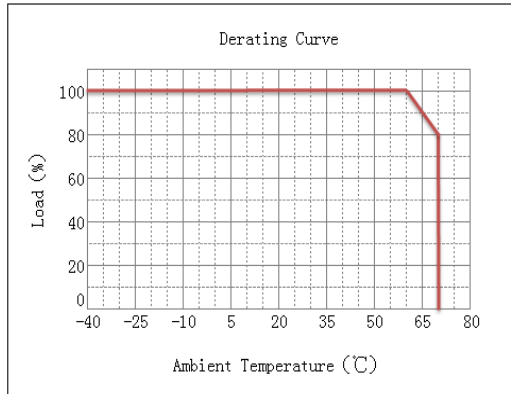
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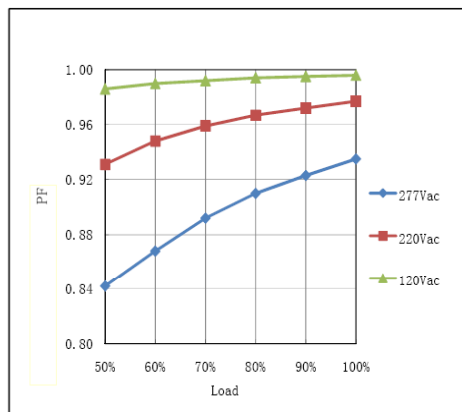
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

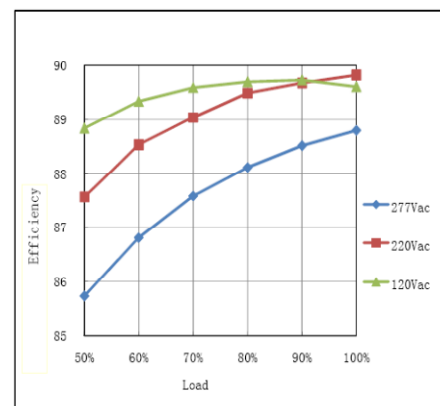
Derating Curve



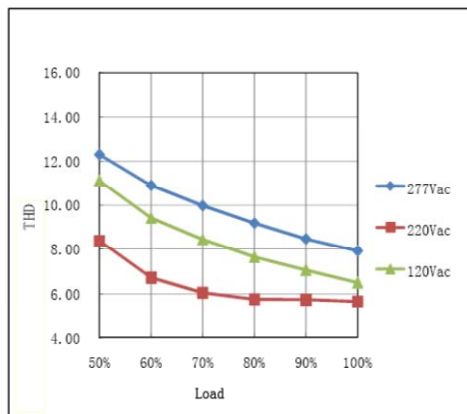
Power Factor VS. Load Curve(Model:700mA)



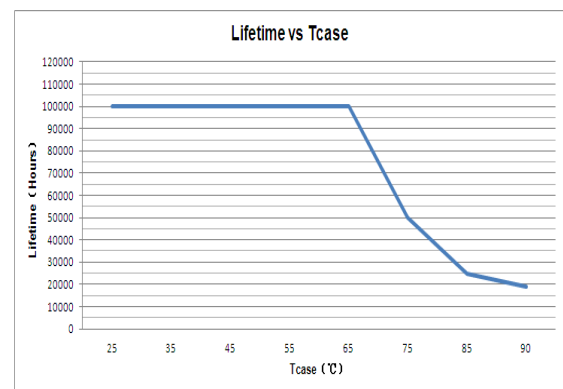
Efficiency VS. Load Curve(Model:700mA)



THD Curve(Model:700mA)

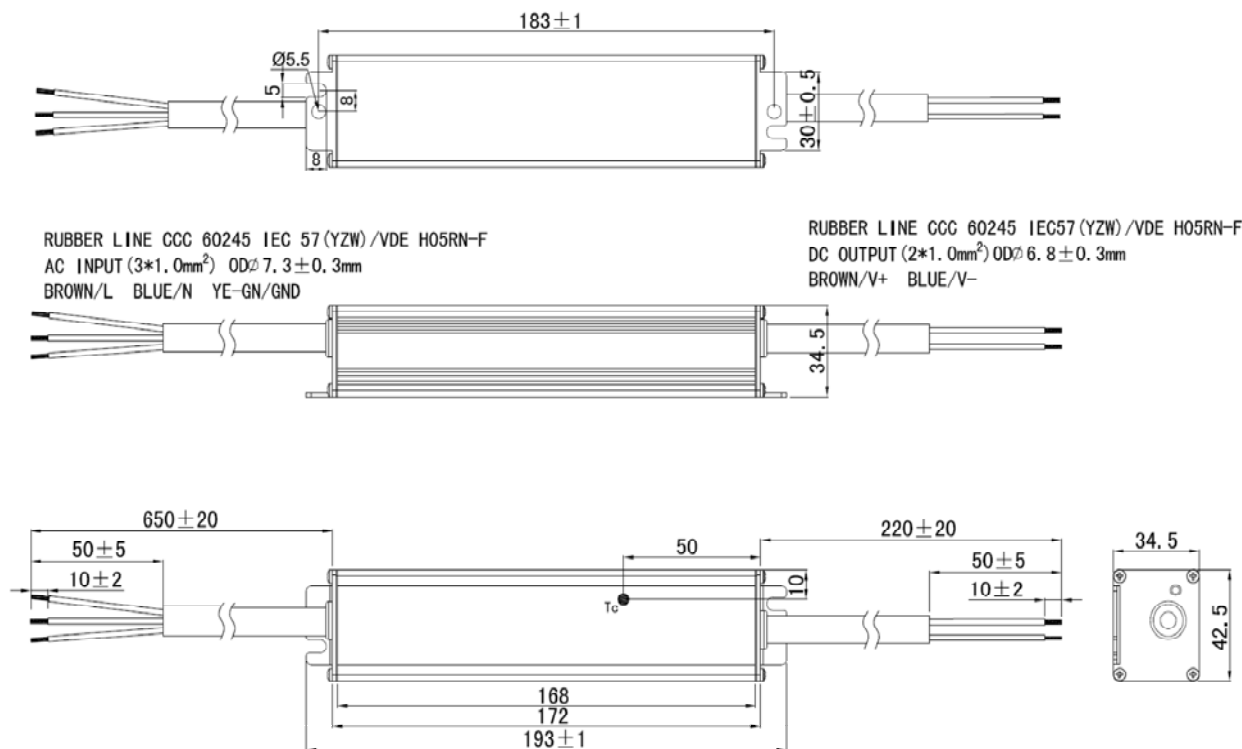


Life Time VS. Tcase (Ref.)



■ 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.