



■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.98 Typ.
- High efficiency: 92% 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		012	024	028	036	042	048	054	081	105
(MU100CxxxAP)										
Input	Efficiency(120Vac)(Typ.) ^{Note.1}	87.0%	87.0%	88.0%	88.0%	88.0%	88.0%	88.0%	89.0%	89.0%
	Efficiency(230Vac)(Typ.) ^{Note.1}	89.0%	89.0%	90.0%	90.0%	90.0%	90.0%	90.0%	91.0%	91.0%
	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								
	Power Factor(Typ.)	0.98 (Typ.) with 80%-100% load,at 120Vac								
		0.95 (Typ.) with 80%~100% load,at 230Vac								
		>0.9 with 80%~100% load, at 277Vac								
	THD(Typ.)	<20% with 80% ~ 100% load, at 100Vac~277Vac								
Output	AC Current(Typ.)	1.2A at 100VAC input, 0.6A at 230VAC								
	Inrush Current(Max.)	65A 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.)	1mA at 277Vac/60Hz								
	DC Voltage (V)	12	24	28	36	42	48	54	81	105
	Rated Current(mA)	8330	4170	3570	2770	2380	2080	1850	1230	950
	Current Range(mA)	0~8330	0~4170	0~3570	0~2770	0~2380	0~2080	0~1850	0~1230	0~950
	Rated Power (W)	100	100	100	100	100	100	100	100	100
	Ripple&Noise Voltage(Typ.)	<2%((PK-AV) /AV) with LED default mode and full load)								
	Voltage Tolerance	5%								
Protection	Line Regulation	1%								
	Load Regulation	3%								
	Current ADJ. Range	-								
	Turn on delay Time	<3s, at 120Vac; <1.5s, at 277Vac								
	Over Voltage(V)	Protection type : Hiccup mode.The power supply shall be self-recovery when the fault is removed.								
Safety & EMC	Over Current	110%~170% Protection type : constant current limiting, recovers automatically after fault condition is removed.								
	Short Circuit	Protection type : Recovers automatically after fault condition is removed.								
	Over Temperature	Protection type : The power supply shall return to normal operation only after the power is turn-on again.								
Environment	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℃)								
	Vibration	10-55-500Hz, 2G(10~55Hz),5G(55~500Hz) 1 octave/minute, period for 1hour each along X、Y、Z axes								
Others	Safety Standard	UL 8750,UL1012,IEC61347-1,IEC61347-2-13								
	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℃/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-FG 6KV, L-N 4KV)								
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	211 x 67.5 x 37 (mm) (LxWxH)								
	Weight	0.9kg								

Note.1: Measured at full load and steady-state temperature in 25℃ ambient(Efficiency will be about 2% lower if measured immediately after startup); 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℃ of ambient temperature ;

subject to change without notice

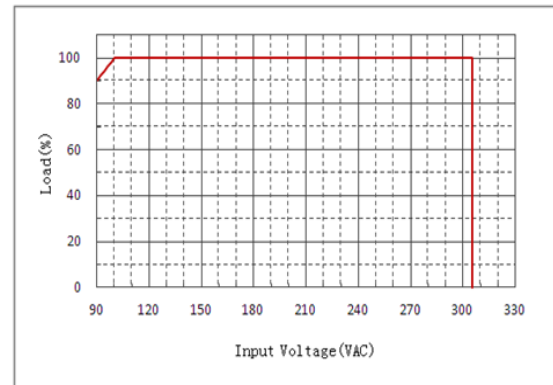
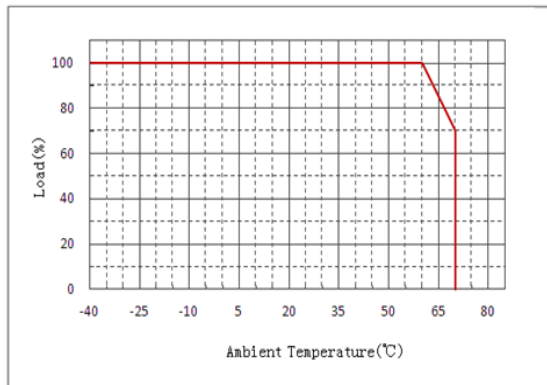
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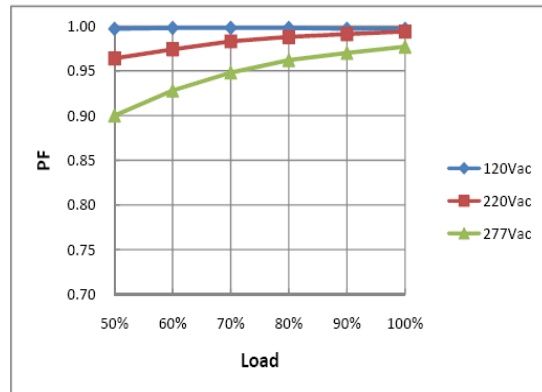
Add: No.168, Mingjia Road, Shanghai 201107, P.R.China

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

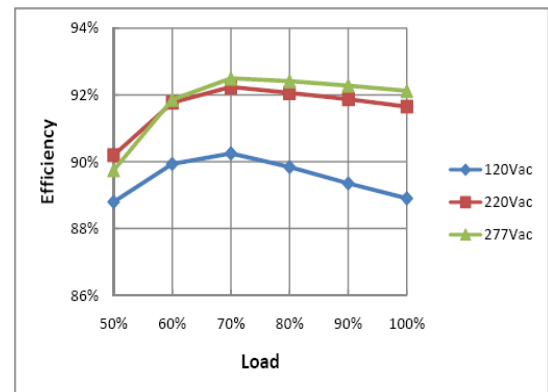
Derating Curve



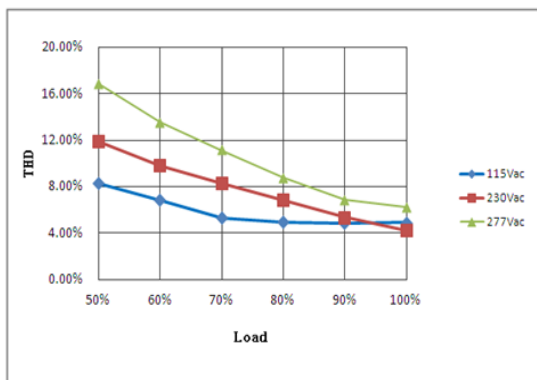
Power Factor VS. Load Curve



Efficiency VS. Load Curve



THD Curve



Life Time VS. Tcase (Ref.)

