



■ **Features**

- Input voltage: 90-305VAC
- Built-in active PFC function: 0.98 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



■ **Specification**

Model		012	024	036	042	048	050	052	054	081	105
(MU200AxxxAP)											
Input	Efficiency(120Vac)(Typ.) _{Note.1}	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	89.0%	89.0%
	Efficiency(230Vac)(Typ.) _{Note.1}	90.0%	90.0%	90.0%	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									
	AC Current(Typ.)	2.4A at 100VAC input, 1.2A at 230VAC									
Output	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	36	42	48	50	52	54	81	105
	Rated Current(mA)	16660	8330	5550	4760	4160	4000	3840	3700	2470	1900
	Current Range(mA)	0~16660	0~8330	0~5550	0~4760	0~4160	0~4000	0~3840	0~3700	0~2470	0~1900
	Rated Power (W)	200	200	200	200	200	200	200	200	200	200
	Ripple&Noise Voltage(Typ.)	<2%((PK-AV) /AV) with LED default mode and full load)									
	Voltage Tolerance	5%									
	Line Regulation	1%									
	Load Regulation	3%									
Protection	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.									
	Over Current	110%~170% Protection type : constant current limiting, recovers automatically after fault condition is removed.									
Environment	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.									
	Operating Temp.	-35~+70℃(Refer to 'Derating Curve')									
	Tc	90℃ max									
Safety & EMC	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									
Safety & EMC	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge L,N-FG 4KV, L-N 2KV)									
	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	224 x 95 x 46 (mm) (LxWxH)									
Weight	Weight	1.5kg									

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 ;

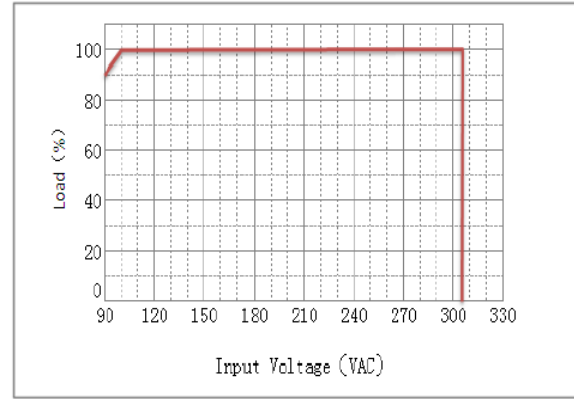
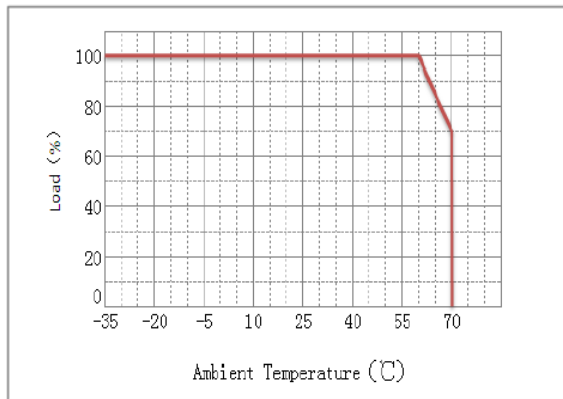
subject to change without notice

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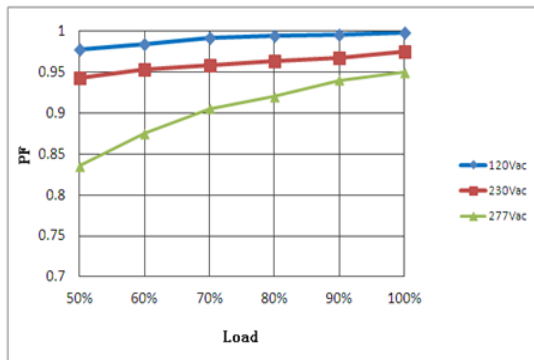
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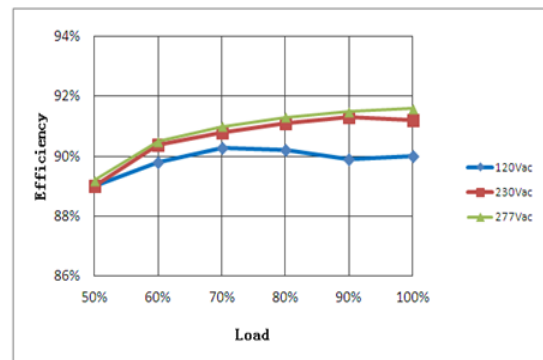
Derating Curve



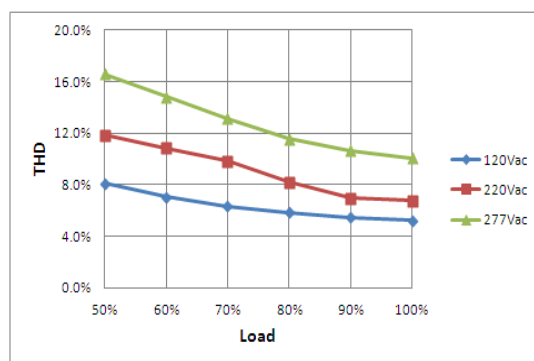
Power Factor VS. Load Curve



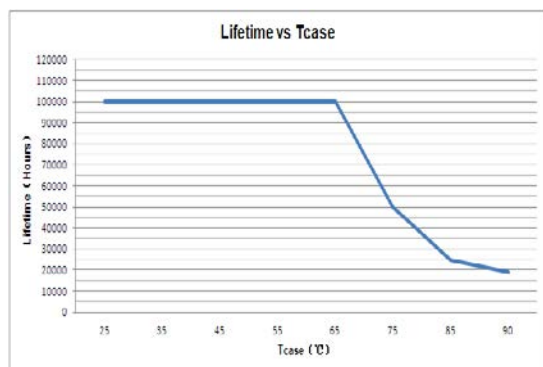
Efficiency VS. Load Curve



THD Curve



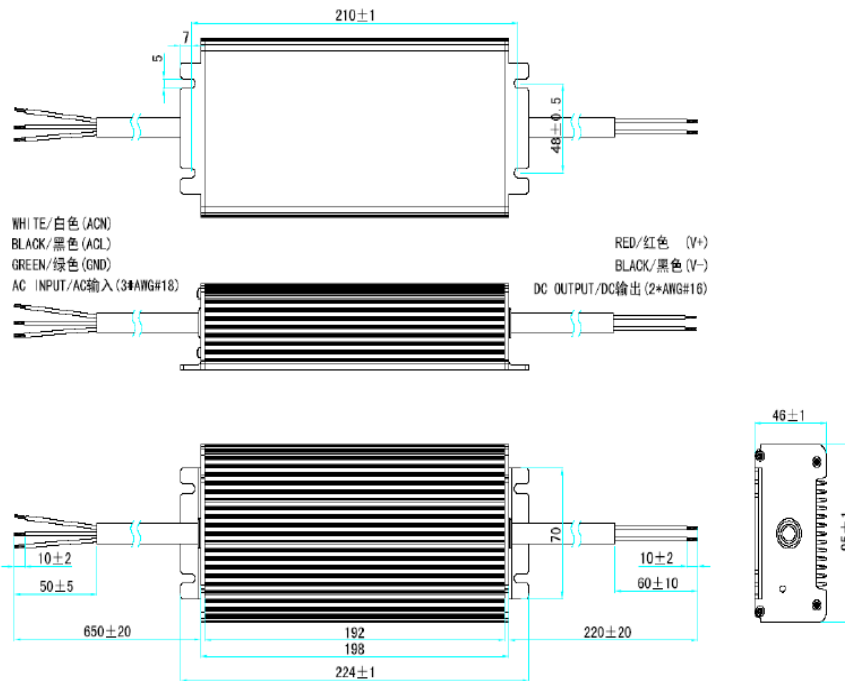
Life Time VS. Tcase (Ref.)



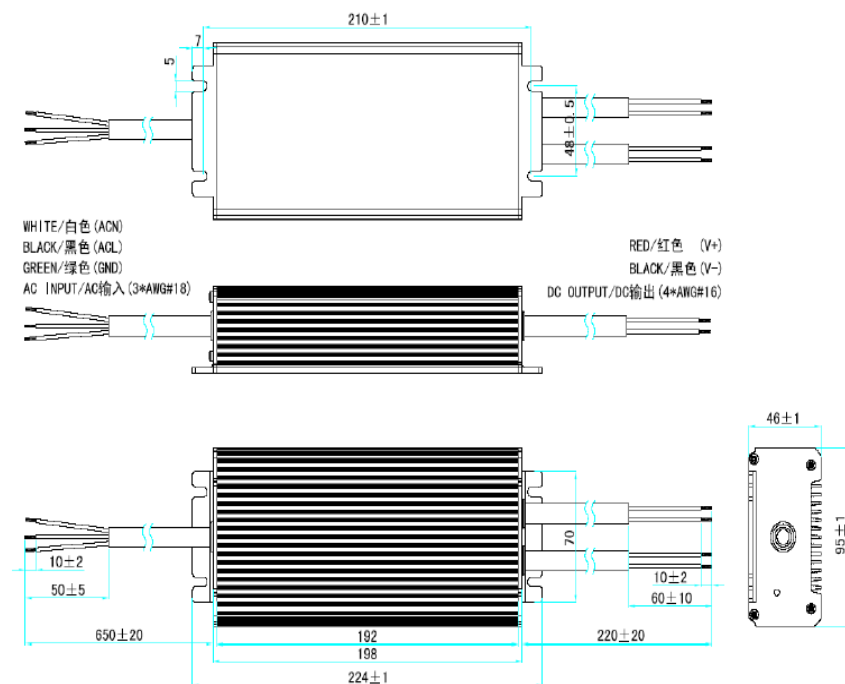
■ Mechanical Specification

Dimensions (Unit: mm)

1.constant voltage



2.constant voltage for 12V



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.