

■ **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		035	045	053	070	085	105	140	175	210	245	280	315	347	420	500
(MU120CxxxAQ)																
Input	Efficiency(120Vac)(Typ.) ^{Note.1}	90.0%	90.0%	90.0%	89.0%	89.0%	89.0%	89.0%	89.0%	89.0%	88.0%	88.0%	88.0%	88.0%	88.0%	87.0%
	Efficiency(230Vac)(Typ.) ^{Note.1}	92.0%	92.0%	92.0%	91.0%	91.0%	91.0%	91.0%	91.0%	91.0%	90.0%	90.0%	90.0%	90.0%	90.0%	89.0%
	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.)	1.5A at 100VAC input, 0.6A 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)	343	267	226	170	141	114	86	69	57	49	43	38	34	29	24
	Rated Current(mA)	350	450	530	700	850	1050	1400	1750	2100	2450	2800	3150	3570	4200	5000
	Voltage Range(V)	171~343	133~267	113~226	85~170	70~141	57~114	43~86	34~69	28~57	24~49	21~43	19~38	17~34	14~29	12~24
	Rated Power (W)	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	Ripple&Noise Current(Typ.)	<10%((PK-AV) /AV) with LED default mode and full load)														
	Current Tolerance	5%														
	Line Regulation	1%														
	Load Regulation	3%														
Protection	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.														
	Short Circuit	Protection type : Recovers automatically after fault condition is removed.														
Environment	Over Temperature	Protection type : The power supply shall return to normal operation only after the power is turn-on again.														
	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														
Safety & EMC	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	221 x 67.5 x 37 (mm) (LxWxH)														
	Weight	0.95kg														

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 ;

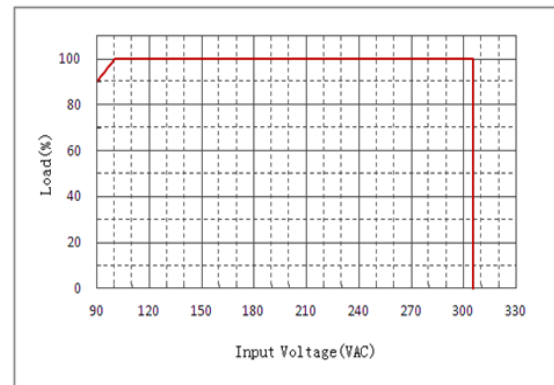
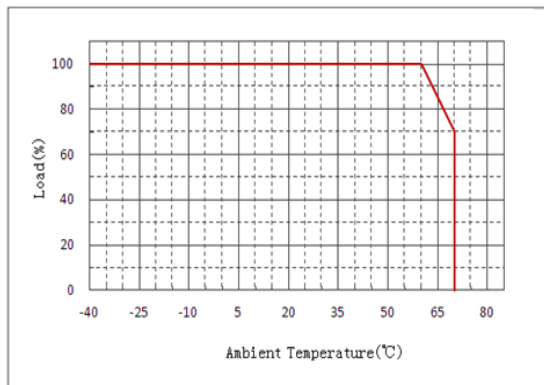
subject to change without notice

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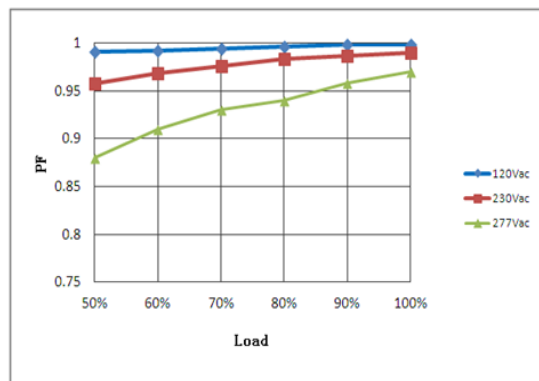
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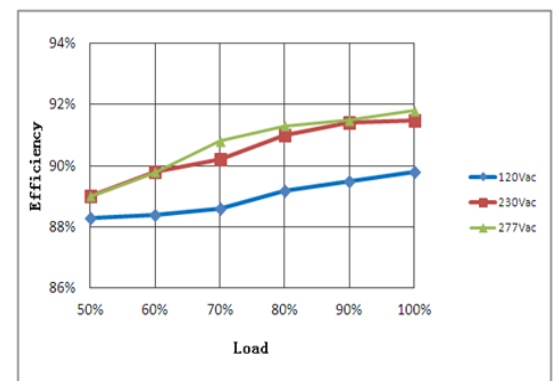
Derating Curve



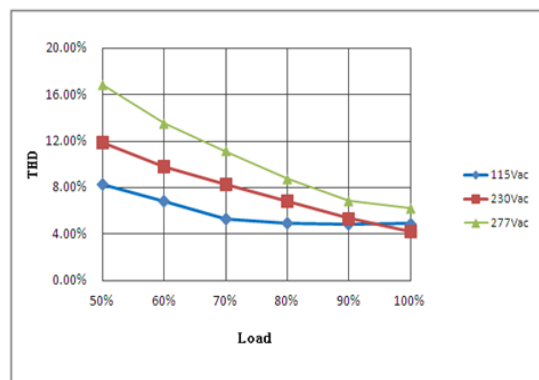
Power Factor VS. Load Curve



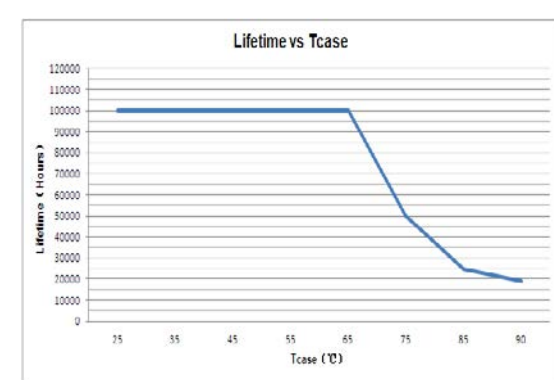
Efficiency VS. Load Curve



THD Curve

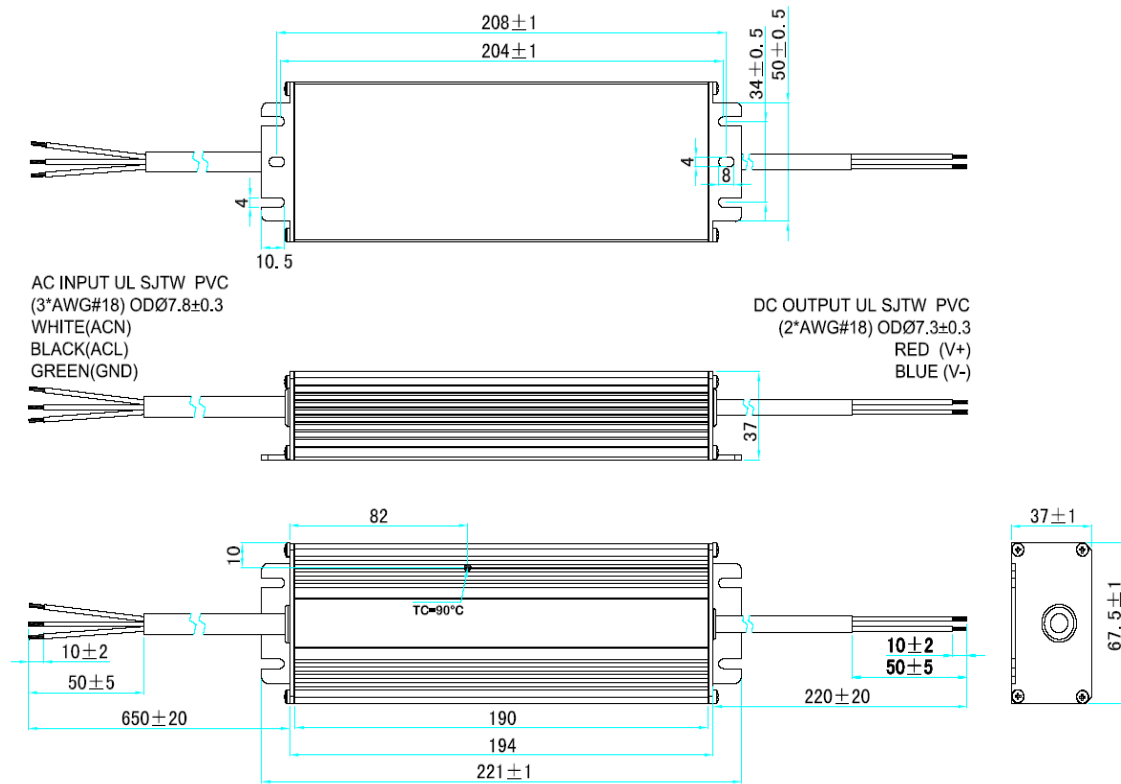


Life Time VS. Tcase (Ref.)



■ Mechanical Specification

Dimensions (Unit: mm)



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.