

■ **Features**

- Input voltage: 90-305Vac
- Built-in active PFC function: 0.99 Typ.
- Low THD.
- High efficiency: 92% Typ.
- High surge immunity
- Compliance to worldwide safety regulations for lighting



■ **Specification**

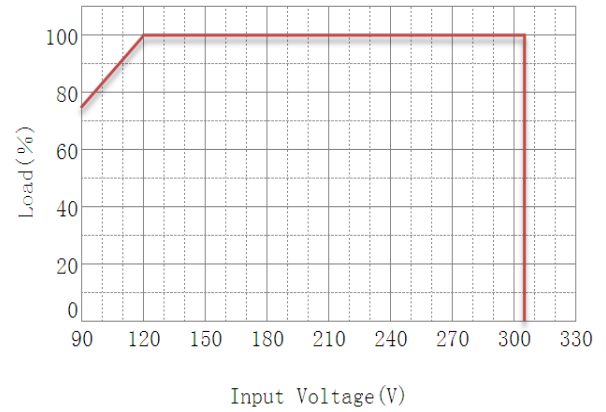
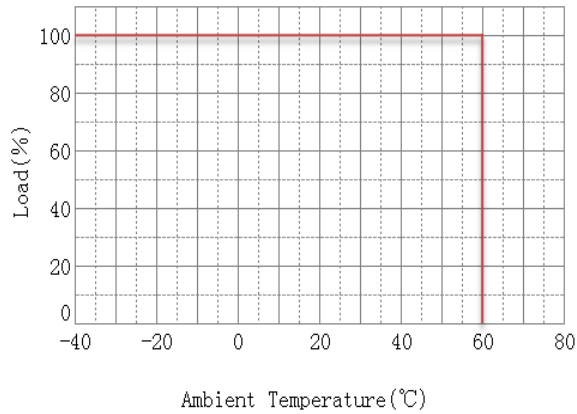
UU120A048AP		
Input	Efficiency (120Vac) _{Note.1}	90%(Typ.), 88%(Min.)
	Efficiency (230Vac) _{Note.1}	92%(Typ.), 90%(Min.)
	Voltage Range (V) _{Note.2}	90 ~ 305Vac
	Voltage Rated (V) _{Note.2}	100 ~ 240Vac
	Frequency Range (Hz)	47~63
	Power Factor	0.99(Typ.), 0.98(Min.) at 120Vac input, 0.98(Typ.), 0.95(Min.) at 230Vac input
	THD (Typ.)	<20% at 100~277Vac input, with 80%~100% load
	AC Current (Max.)	1.5A at 100Vac input, 0.7A at 220Vac input
	Inrush Current (Max.)	40A 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 0.2ms)
	Leakage Current (Max.)	0.75mA at 277Vac/60Hz
Output	Rated CV Output Voltage (V)	48
	CV Output Voltage Tolerance	5%
	CV Output Current (mA)	100-2500
	CC Output Voltage Range (V)	30-45 (Refer to 'Output V/I Curve')
	CC Output Rated Current (mA)	2500 (Default)
	Output Current ADJ. Range (mA)	1500-2500
	Rated Power (W)	120 max
	Ripple Current (Typ.)	10% of Io_max. ((PK-AV) /AV) with LED default mode and full load)
	Voltage Tolerance	5%
	Line Regulation	1%
	Load Regulation	3%
	Turn on delay Time	3s, measured at 120Vac input; 1.5s, measured at 230Vac input
Protection	Over Voltage (Typ.)	57V
	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed.
	Over temperature	Hiccup mode. When the inside temperature of PSU rise to 100~130°C(Typ.), the PSU will shutdown. The power supply shall be self-recovery when the inside temperature of PSU drop to normal temperature.
Environment	Operating Temp.	-40~+60°C
	Tc	90°C max
	Operating Humidity	20~90%RH, non-condensing
	Storage Temp., Humidity	-40~+85°C, 10-95%RH
	Temp. Coefficient	0.03%/°C (0~50°C)
	Vibration	10-500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
Safety & EMC	Safety Standard	EN61347-1, EN61347-2-13, GB19510.1, GB19510.14
	Withstand Voltage	I/P-O/P:3.75kVac, I/P-FG:1.875kVac, O/P-FG:1.5kVac
	Isolation Resistance	I/P-O/P:100M Ohms (500VDC/25°C/70%RH)
	EMC Emission	FCC Part 15 Class B/ EN55015, EN61000-3-2 Class C, EN61000-3-3
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge: L-N: ±2kV, L,N-FG: ±4kV)
Others	MTBF	300,000 Hours, measured at full load, 25°C ambient temperature
	Lifetime	50,000 Hours at Tc 70°C
	Dimension	162 x 71 x 40 (mm) (LxWxH)
	Weight (Typ.)	0.45 kg

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);

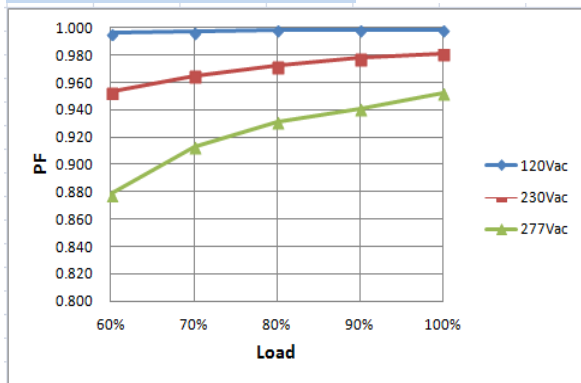
Note.2: Derating may be needed under low input voltage, Please Refer to 'Derating Curve' ;

Note.3: All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature;

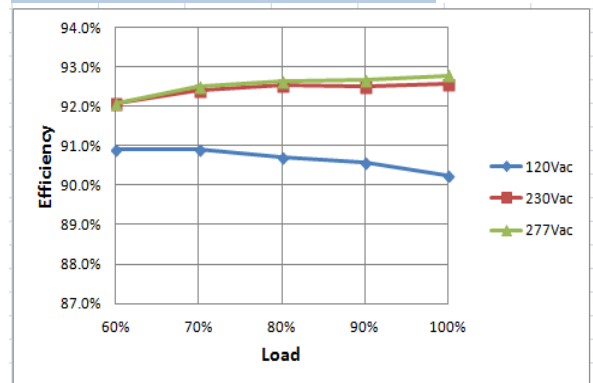
Derating Curve



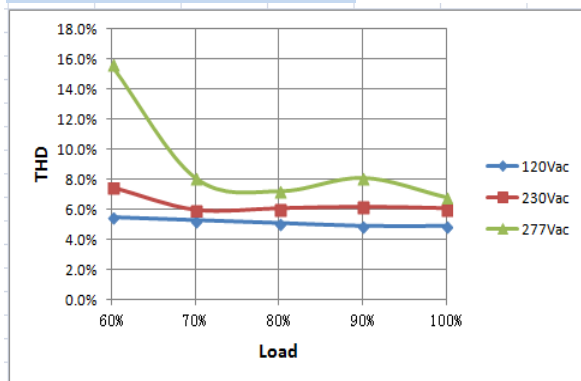
Power Factor VS. Load Curve



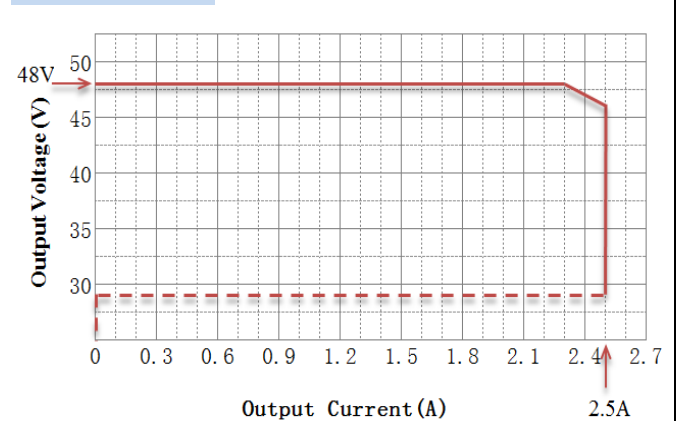
Efficiency VS. Load Curve



THD VS. Load Curve

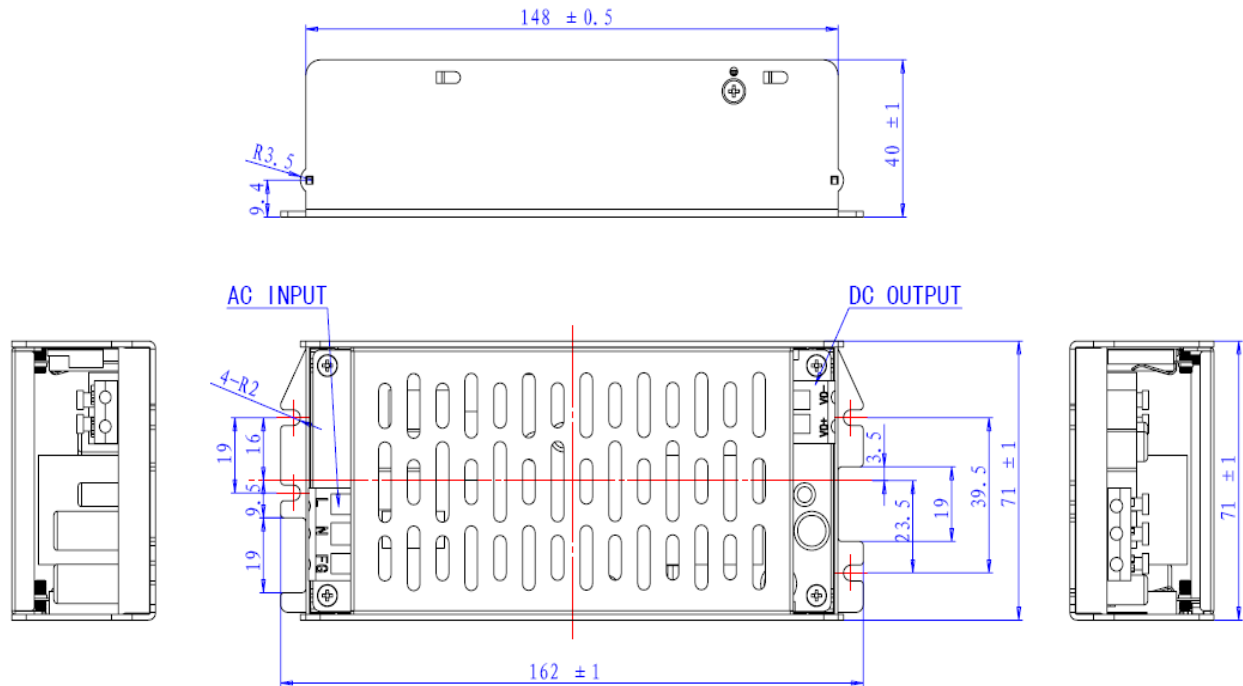


Output V/I Curve

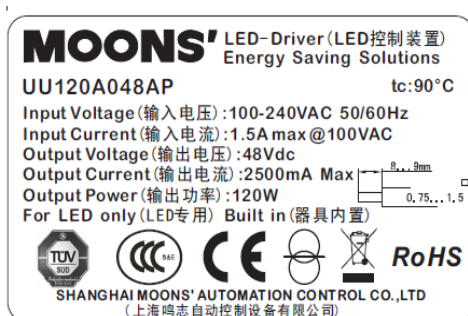


■ Mechanical Specification

Dimensions (Unit: mm)



■ Label



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.

subject to change without notice

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