MU075CxxxAP Series General-Outdoor

■ Features

· Input voltage: 90-305VAC
· Built-in active PFC function: 0.99 Typ.
· High efficency: 92% Typ.
· IP67 design for indoor or outdoor installations
· High surge immunity
· Compliance to worldwide safety regulations for lighting
· Suitable for dry/damp/wet locations
· Type TL 90/64℃, Type HL

c UL us
E348796

■ Specification

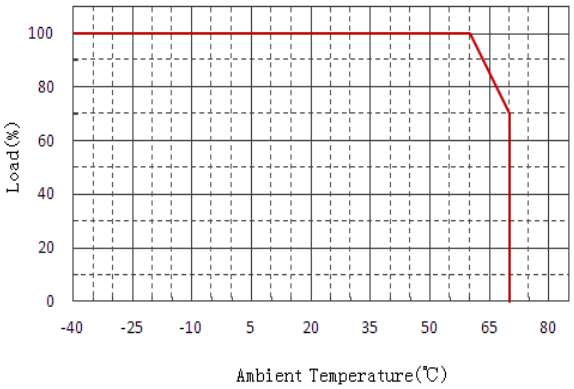
Model (MU075CxxxAP)		012	024	036	042	048	054	081	105
Input	Efficiency (Typ.)110VAC	88.0%	89.0%	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%
	Efficiency (Typ.)220VAC	90.0%	91.0%	92.0%	92.0%	92.0%	92.0%	92.0%	92.0%
	Voltage Range (VAC)	90～305							
	Frequency Range (Hz)	47~63							
	Power Factor(Typ.)	0.99 at 110VAC input，0.98 at 220VAC input，100% load							
	THD	< 20%, at 100～277Vac input, with 80%～100% load conditions							
	AC Current	0.9A MAX at 110VAC , 0.45A MAX at 220VAC							
	Inrush Current	65A MAX(25℃ , at 230VAC , cold start)							
	Leakage Current	0.75mA at 277Vac 50Hz input							
Output	DC Voltage (V)	12	24	36	42	48	54	81	105
	Rated Current(mA)	6250	3125	2083	1786	1563	1389	926	714
	Rated Power (W)	75	75	75	75	75	75	75	75
	Ripple Voltage(Vp-p)	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
	Current ADJ. Range(mA)	0~6250	0~3125	0~2083	0~1786	0~1563	0~1389	0~926	0~714
	Voltage Tolerance Note.1	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Load Regulation	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
	Setup, Rise Time	3s, measured at 110VAC input; 1.5s, measured at 220VAC input							
	Hold Up Time	10ms at 220VAC 100% load							
Protection	Over Voltage(Vmax.)	16	32	48	56	64	72	108	140
		Protection type : constant current limiting, recovers automatically after fault condition is removed.							
	Short Circuit	Constant current limiting, 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	Working Temp.	-40~+70℃, refer to the derating curve for detail							
	Working Humidity	20~95%RH,							
	Storage Temp., Humidity	-40~+80℃, 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:0.5KV							
	Isolation Resistance	I/P-O/P ,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH							
	EMC Emission	IEC55015/FCC Part 15 Class B, IEC61000-3-2 Class C,IEC61000-3-3							
	EMC Immunity	IEC61000-4-2,3,4,5,6,8,11 , IEC61547 (Surge L,N-FG 6KV , L-N 4KV)							
Others	MTBF	300,000 hours, measured at full load, 25℃ ambient temperature, MIL-HDBK-217F							
	Dimension	191 x 67.5 x 37 (mm)							
	Weight	0.81kg							

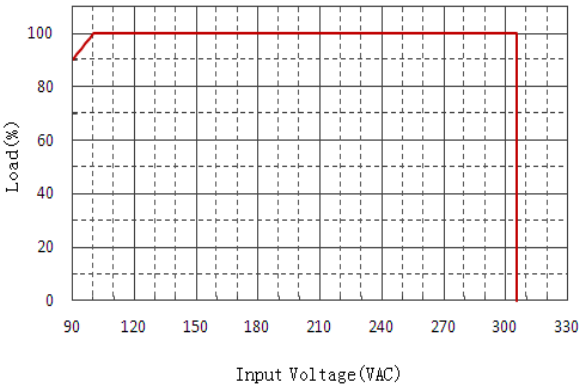
Note.1: Includes set up tolerance, line regulation and load regulation.

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.
Add: No.168, Mingjia Road, Minbei Industrial Park, Shanghai 201107, P.R.China
Tel: +86 (0)21 52634688 Website: www.moons.com.cn

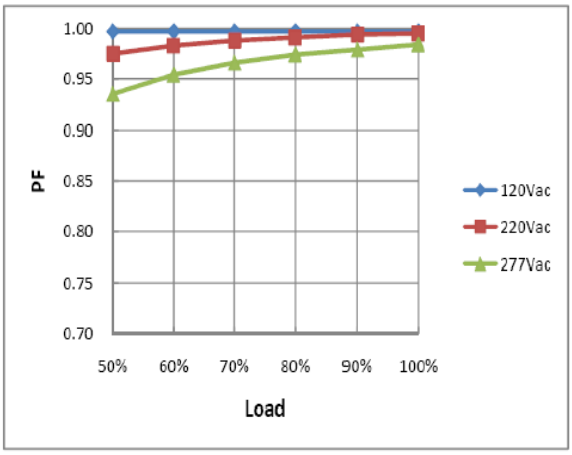
■ **Test Curve**

Derationg Curve

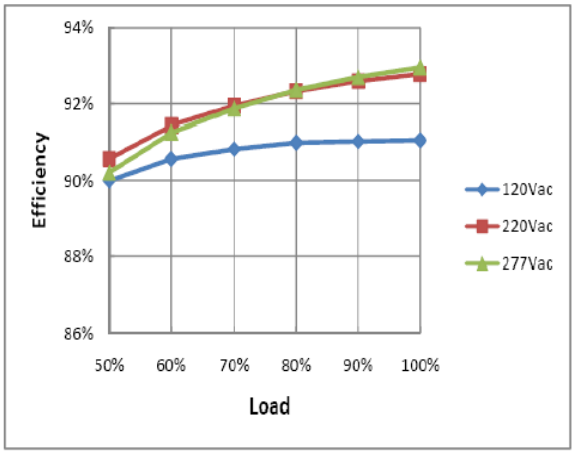




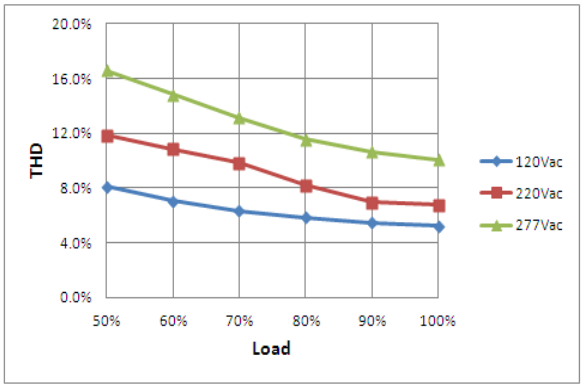
Power Factor Curve



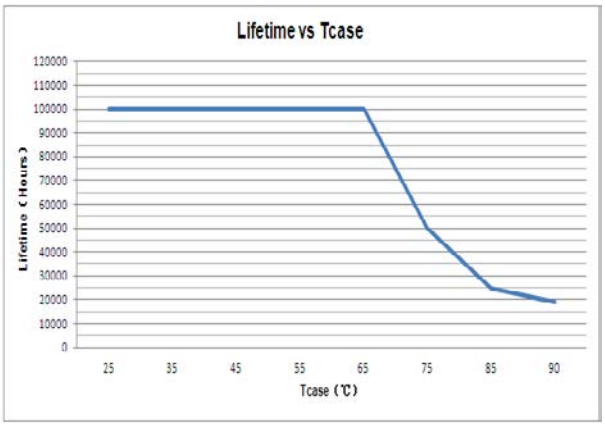
Efficiency VS. Load Curve(Model:48V)



THD Curve



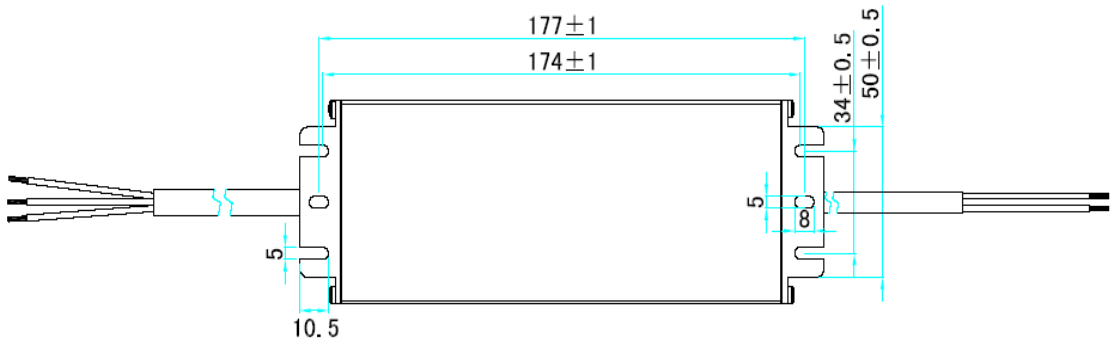
Lifetime vs. Case Temperature

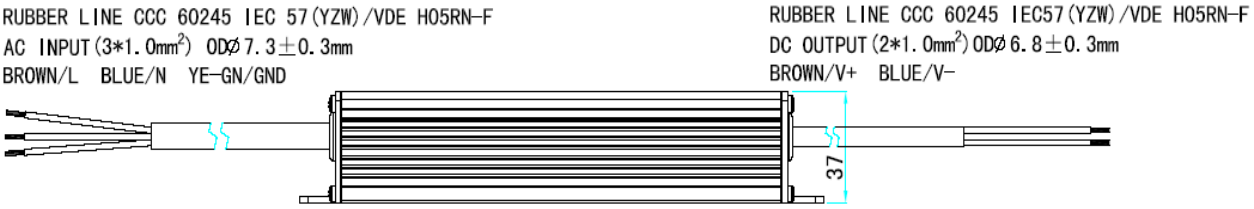


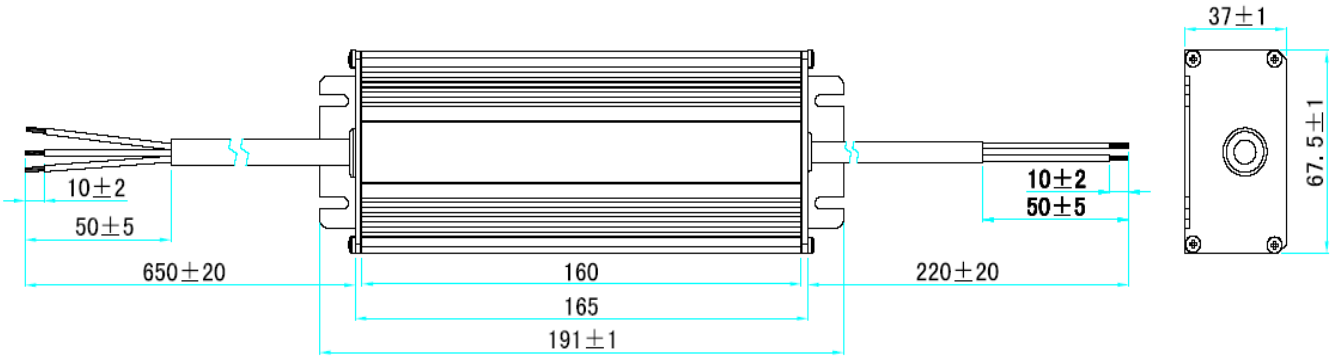
 2015-7-15

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.
Add: No.168, Mingjia Road, Minbei Industrial Park, Shanghai 201107, P.R.China
Tel: +86 (0)21 52634688 Website: www.moons.com.cn

■ **Mechanical Specification**







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.

Terminal wire Type

UL apporval	UL SJTW PVC	BLACK/L	3*AWG#18	UL SJTW PVC	RED/+	2*AWG#18
		WHITE/N			BLUE/-	
		GREEN/GN				
CCC/CB/CE apporval	RUBBER CCC+VDE 60245 IEC57 YZW/H05RN-F	BROWN/L	3*1.0mm² ODΦ 7.3± 0.3mm	RUBBER CCC+VDE 60245 IEC57 YZW/H05RN-F	Brown/+	2*1.0mm² ODΦ 6.8± 0.3mm
		BLUE/N			Blue/-	
		YE-GN/GN				

SHANGHAI MOONS' AUTOMATION CONTROL CO., LTD.
Add: No.168, Mingjia Road, Minbei Industrial Park, Shanghai 201107, P.R.China
Tel: +86 (0)21 52634688 Website: www.moons.com.cn