



TECHNICAL SPECIFICATION

MODEL NO.:APMS-60-24

DOCUMENT NO.:_____

CUSTOMER NO.:_____

DATA.:_____

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APMS-60-24

60W Single output with PFC function

IP67 Waterproof LED Power Supply



- ★ Constant Voltage Mode
- ★ Built-in Active PFC Function, High efficiency up to 89%
- ★ Protection: Overload/Short Circuit
- ★ Aluminum housing design with functional Ground
- ★ IP67 full sealed for indoor and outdoor installations
- ★ Super Compact Design
- ★ 5 Years warranty



TECHNICAL PARAMETERS

1. Output

Items	Specs	Unit	Conditions
Rated Output voltage	24	VDC	
Rated Output Current	2.5	A	
Rated Output Power	60	W	
Tcase	90	C°	Ta:60C°, 230VAC, full load
Efficiency	≥87.5 (Typical 88)	%	240VAC input, Rated Load
Line Regulation	±0.5%		
Load Regulation	±1.5%		
Voltage tolerance	±3%		
Rise time	≤60	mS	25C° , full load
Power On Delay time	≤2	S	200-240VAC, full load
Switch off Hold Up time	/	ms	Rated input voltage, rated load

2. Input

Items	Specs	Unit	Conditions
Rated Input voltage	200-277	VAC	
Input voltage range	176-305	VAC	
Input Frequency	47-63(Typical 50/60)	Hz	
Input Current Max	0.5	A	Vin=176Vac, Full Load
Inrush Current	≤20	A	220Vac, full load, 25C°
Power Factor	≥0.95		176~277Vac input, full load
THD	≤15	%	Vin=176~277Vac, full load

3. Protection

Current Limiting	110%-160%	A	Hi-CCUP Mode, Auto-recovery after fault condition is removed
Short circuit	Yes		Hi-CCUP Mode, Auto-recovery after fault condition is removed
Input Undervoltage protection	>80	V	

4. Temperature and others

Operating Temperature range	-40 to +80 (Typical25)	C°	Refer to Derating Curve
Storage Temperature range	-45 to +80 (Typical25)	C°	
Humidity	10 ~ 95	%	NON-Condensing
Altitude	0 ~ 5000	M	Altitude Over 2000 meters, 1.5% derating for every 100 meters increase
Waterproof Level	IP67		
Cooling method	Air convection		
Temperature Coefficient	0.03%/C° (0-60C°)		
Vibration	10-500Hz, 5G 12min./1cycle, period for 72 min, each along X.Y. Z axes		

5. Safety & EMC Standards

Safety standard	UL8750, IEC/EN61347-1,EN61347-2-13,EN62368, GB19510.1,GB19510.14, IP67 Approved	
Withstand voltage	I/P-O/P	3000Vac 10mA (Max)
	I/P-FG	1500Vac 10mA (Max)
	O/P-FG	500Vac 10mA (Max)
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25C°/ 70% RH	
Leakage Current	< 0.75mA	240Vac/60Hz

EMI

Conducted	EN55015(CISPR15), GB17743
Radiated	EN55015(CISPR15), GB17743
Harmonic Current	EN61000-3-2 , Class C @load \geq 50%

EMS

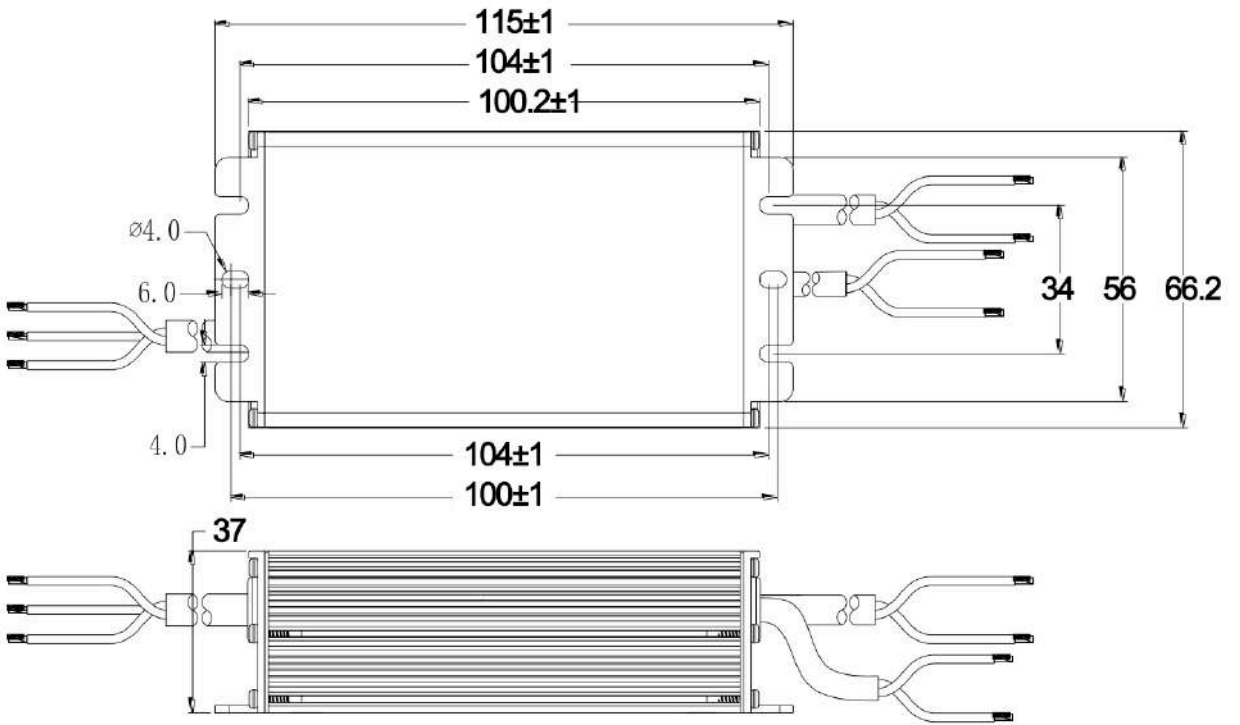
ESD	EN61000-4-2, 8KV air ; Level 2, 4KV contact
Radiated	EN61000-4-3
EFT/Burst	EN61000-4-4
Surge	EN61000-4-5, 4KV/Line-Line 6KV/Line-Earth
Conducted	EN61000-4-6
EN61547, Electromagnetic Immunity Requirements applies to lighting Equipment	

Others

MTBF	200Khours, MIL-HDBK-217F (25C°)
Dimension	115(L)*66.2 (W)*37(H)
Packing	0.41Kg;24pcs/ 10.5Kg/0.026CBM

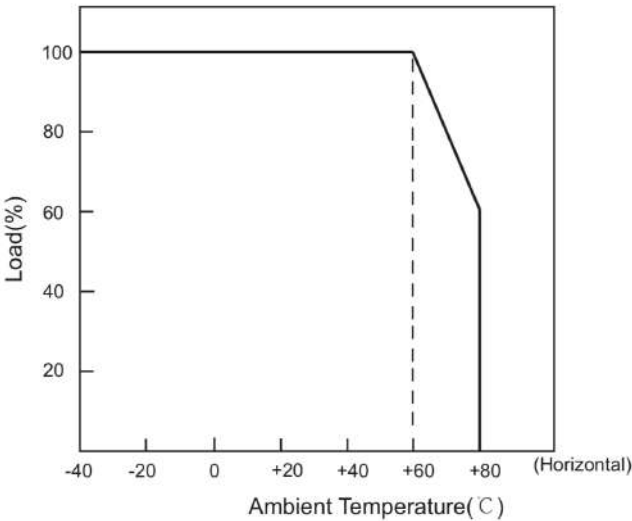
6. Mechanical Mounting

DIMENSION	115(L)*66.2 (W)*37(H) mm		
Input Cable	AC/N(Blue) AC/L(Brown) FG(Green/Yellow)	VDE 17AWGx3C & 3x1.0mm ²	270±20mm Length
Output Cable	V+(RED)/Brown, V-(BLACK)/Blue	VDE 17AWGx2C & 2x1.0mm ²	300±20mm Length

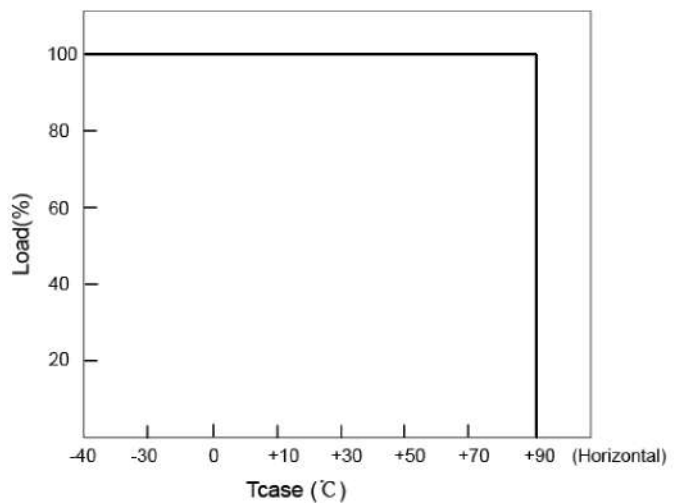


7. Characteristics & Derating

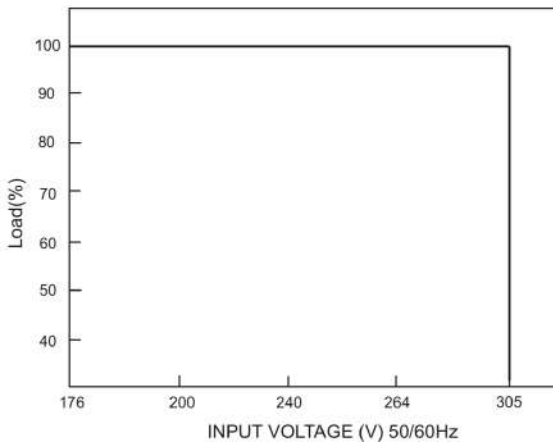
OUTPUT LOAD vs TEMPERATURE



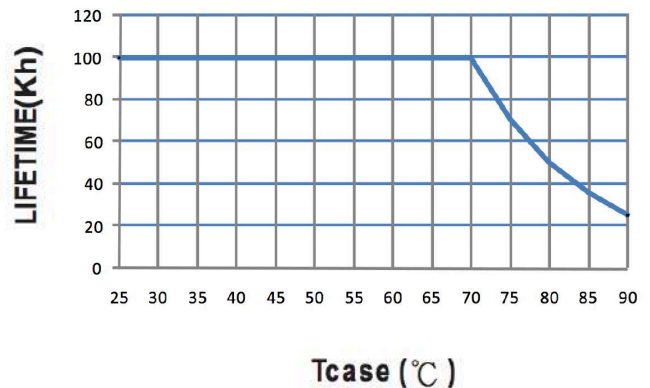
OUTPUT LOAD vs Tcase



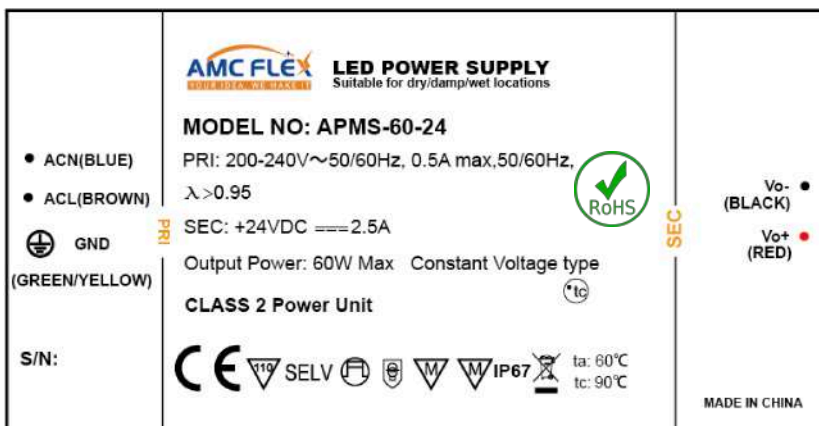
STATIC CHARACTERISTIC



LIFE TIME



8. Product Label



9. Installation Manuel & Caution

- Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently.
- Keep proper ventilation around the unit and do not put any object on it. 15-20cm clearance must be kept when the adjacent device is a heat source
- Operating under high ambient temperature may cause the internal component temperature and will require a de-rating in output load
- Install in wet condition need use waterproof connectors, make sure there is no space between the unit and lighting fixtures.
- Output current and output wattage must not exceed the rated values on the specifications
- Wiring
 - Connect the ACL wire (Brown) of the LED power supply to Live (black or brown).
 - Connect the ACN wire (Blue) of the LED power supply to Neutral (white or blue)
- Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!
- Can't be installed under water or buried in soil directly
- Please do not install LED power supplies in places with high ambient temperature or close to fire source
- The FG (⊕) must be well connected to PE(protective earth)
- If the external flexible cable or cord of this switching power supply is damaged, it shall be exclusively replaced by the manufacturer or similar qualified person in order to avoid a hazard.