

TECHNICAL SPECIFICATION

MODEL NO.:APMS-350-24	DOCUMENT NO.:	
CUSTOMER NO.:	DATA.:	

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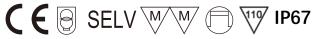


APMS-350-24

350W Single output with PFC function



- Constant Voltage + constant current Hybrid Mode
- ♣ Built-in Active PFC Function, High efficiency up to 93.5%
- Protection: Over Current/Short Circuit/Over voltage Over Temperature
- Aluminum housing design with functional Ground
- ♣ IP67 full sealed for indoor and outdoor installations
- Surge protection with 6KV/4KV
- 5 Years warranty



TECHNICAL PARAMETERS

1. Output

Items	Specs	Unit	Conditions
Rated Output voltage	24	VDC	
Rated Output Current	14.6	А	
Rated Output Power	350	W	
Efficiency	≥93.5	%	230VAC input, Rated Load
TC Max		85C°(Ta 50C°, 230\	/AC, Full load)
Line Regulation	±0.5%		
Load Regulation	±1.5%		
Voltage tolerance	±2.5%		
Ripple & Noise (max)	≤240	mVp-p	Measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor
Rise time	≤100	mS 25C°, full load	
Power On Delay time	€3	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	220-240	VAC	
Input voltage range	200-264	VAC	
Input Frequency	47-63(Typical 50/60)	Hz	
Input Current Max	2.5	А	Vin=200Vac, Full Load
Inrush Current	≤70	А	220Vac, full load, 25C°
Power Factor	≥0.95		200~264Vac input, full load
THD	≤10	%	Vin=230Vac, full load
No Load Power consumption	<0.5	W	

3. Protection

Current Limiting	108%-132%	А	Hi-CCUP Mode, Auto-recovery after fault condition is removed
Over Voltage	26-28	V	
Short circuit	Yes		Hi-CCUP Mode, Auto-recovery after fault condition is removed
Over Temperature	≥110	C°	Inner temperature, Auto-recovery
Input Undervoltage protection	>150	V	Vin=230V

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	М	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, GB19510.1,GB19510.14, IP67 Approved		
	I/P-O/P 3750Vac 10mA (Max)		
Withstand voltage	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	

EMC EMISSION

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

EMC IMMUNITY

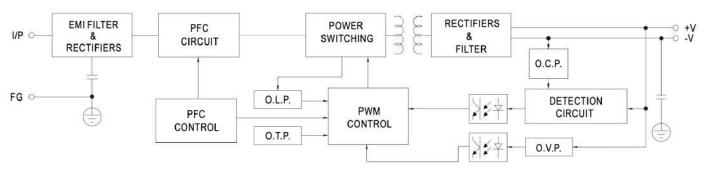
ESD	EN61000-4-2, 8KV air ; Level 2, 4KV contact		
Radiated	EN61000-4-3		
EFT/Burst	EN61000-4-4		
Surge	EN61000-4-5, 4KV/Line-Line 6KV/Line-Earth		
Conducted	EN61000-4-6		
Magnetic Field	EN61000-4-8		
Voltage Dips and interruptions EN61000-4-11, >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
EN61547, Electromagnetic Immunity Requirements applies to lighting Equipment			

Others

MTBF	>200Khours, MIL-HDBK-217F (25C°)	
Dimension	208.6(L)*68(W)*39(H) mm	
Packing	0.85Kg;20pcs / 18Kg/0.026CBM	

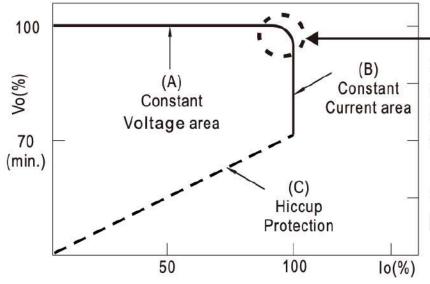
6. BLOCK DIAGRAM

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



7. DRIVING METHODS OF LED MODULE

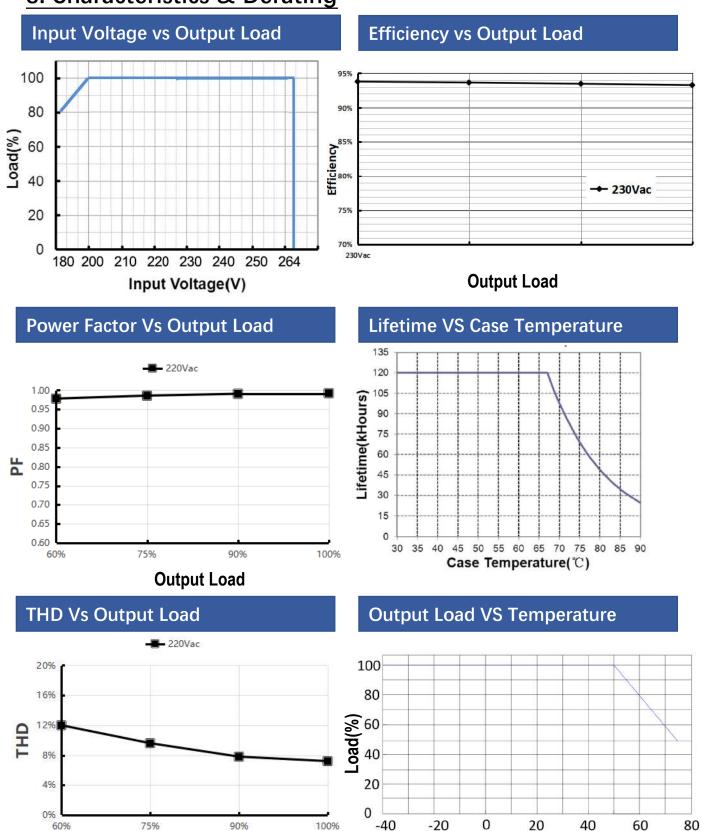
Pls Note: This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs



 In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please please contact us.

8. Characteristics & Derating

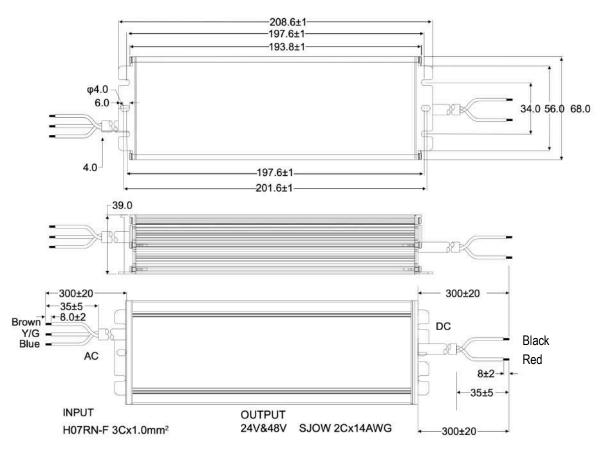


Ambient Temperature

Output Load

9. Mechanical Mounting

DIMENSION	193.6(L)*66.2(W)*40(H) mm		
Input Cable	AC/N(Blue) AC/L(Brown) FG(Green/Yellow)	H07RN 450V/750V 17AWGx3C & 3x1.0mm ²	300±20mm Length
Output Cable	V+(RED) V-(BLACK)	SJOW 14AWGx2C & 2x2.0mm ²	300±20mm Length



10. Product Label



11. Installation Manuel & Caution

- (1). Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently.
- (2). 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
- (3). Operating under high ambient temperature may cause the internal component temperature and will require a de-rating in output load
- (4) Install in wet condition need use waterproof connectors, make sure there is no space between the unit and lighting fixtures.
- (5). Output current and output wattage must not exceed the rated values on the specifications (6). 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)
- (7) . 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!
- (8). Can't be installed under water or buried in soil directly
- (9). Please do not install LED power supplies in places with high ambient temperature or close to fire source (10). The FG (♠) must be well connected to PE(protective earth)
- (11). 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.