

TECHNICAL SPECIFICATION

MODEL NO.:APVM-150-24	DOCUMENT NO.:		
CUSTOMER NO.:	DATA.:		

CHANGZHOU AMCFLEX TECHNOLOGY CO LTD

ADD: NO8, HUASHAN ROAD, XINBEI AREA, CHANGZHOU, JIANGSU, CHINA

TEL: 0086 519 69682537 FAX: 0086 519 68693467

Email: <u>info@amcflex.com</u> www.amcflex.com



APVM-150-24

IP67 Waterproof LED Power Supply



- Constant Voltage + Constant Current Mode
- 200-240VAC Input voltage, High efficiency up to 92%
- Protection: Over Current/Short Circuit/Over voltage Over Temperature
- Class II Power Unit, NO FG
- ♣ IP67 waterproof full sealed with Plastic Housing
- Compliance to ERP SELV EMC LVD requirement
- ♦ 100,000Hours long life span, low temperature rise



TECHNICAL PARAMETERS

1. Output

Items	Specs	Unit	Conditions
Rated Output voltage	24	VDC	Ta , rated input voltage, output with rated power
Rated Output Current	6.25	А	Ta ,rated input voltage
Rated Output Power	150	W	Ta , rated input voltage
Tcase Max	80	C°	Ta: 50C° ,230VAC,full load
Efficiency	≥92 (Typical 92.5)	%	25°C,rated input voltage, output with max. rated power
Line Regulation	±1.0	%	/
Load Regulation	±2.0	%	/
Voltage tolerance	±3.5	%	/
Ripple & Noise (max)	≤120	mVp-p	Measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor
Set up time, Rise time	1000ms, 25ms	mS	25C°, full load
Switch off Hold Up time	18	ms	230VAC, full load

2. Input

Items	Specs	Unit	Conditions
Rated Input voltage	200-240	VAC	25°C
Input voltage range	180-264	VAC	25°C
Input Frequency	47-63(Typical 50/60)	Hz	25°C
Input Current Max	<1.5	А	Vin=180Vac, Full Load
Inrush Current	≤60	А	220Vac, full load, 25C°
Leakage Current	<0.25	mA	240VAC

3. Protection

Current Limiting	1.1-1.4 times of rated output current		Constant current limiting,Auto- recovery after fault condition is removed
Over Voltage	27-29	V	Shut down output voltage, re-power on to recover
Over Temperature	Yes	C°	Hiccup Mode, Auto-recovery after fault condition is removed
Short circuit	Yes		Hiccup Mode, Auto-recovery after fault condition is removed

4. Temperature and others

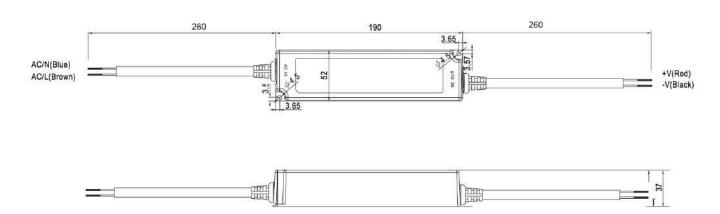
Operating Temperature range	-30 to +70 (Typical25)	C°	Refer to Derating Curve
Storage Temperature range	-40 to +80 (Typical25	C°	
Humidity	10 ~ 95	%	NON-Condensing
Max Case Temperature	80	C°	50C° ambient temperature, full load
Waterproof Level	IP67 full sealed with silicon gel		
Cooling method	Air convection		
Temperature Coefficient	0.03%/C° (0-60C°)		
Vibration	10-500Hz, 5G 12min./1cycle, period for 72 min, each along X.Y. Z axes		
Lifespan	50,000hours, Max.Ta, rated input voltage, max rated output power		
Dimension/Packing	190*52*37mm (L*W*H) , 0.7Kg;20pcs/15Kg/0.029CBM		

5. Safety & EMC Standards

Safety	U8750, EN60950-1, EN 62368-1,EN61347
Withstand Voltage	I/P-O/P:3.0KVAC
Isolation Resistance	I/P-O/P:>100M Ohms / 500VDC /25C°/70% RH
EMI Conduction	Compliance to EN55015, EN55032
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level , criteria A
Temperature Coefficient	0.03%/C° (0-60C°)
Vibration	10-500Hz, 5G 12min./1cycle, period for 72 min, each along X.Y. Z axes

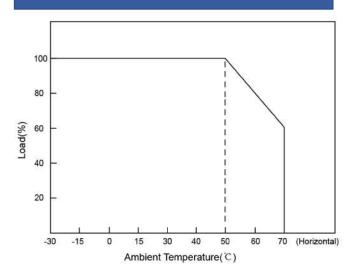
6. Mechanical Mounting

Case Material	Pure PC, Fire-proof level V0
Mounting ways	Striped
Insulation type	Class II, NO FG
IP grade	IP67
Input cables dimension	H05RN-F 2X1.0mm2, 17AWG, 300±10mm, AC/N-Blue, AC/L-Brown
output cables dimension	H05RN-F 2X1.5mm2, 16AWG, 300±10mm,V+: Red, V-:Black
Dimension	190*52*37mm (L*W*H)

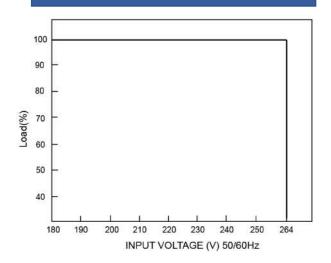


7. Characteristics & Derating

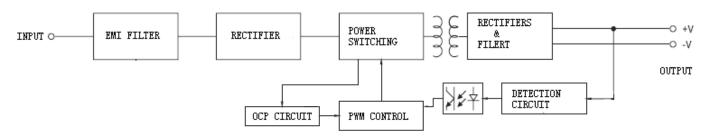
OUTPUT LOAD vs TEMPERATURE



STATIC CHARACTERISTIC



8. Block Diagram



9. Product Label

