



TECHNICAL SPECIFICATION

MODEL NO.:APVM-36-12

DOCUMENT NO.:_____

CUSTOMER NO.:_____

DATA.:_____

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APVM-36-12

IP67 Waterproof Power Supply



- ★ Constant Voltage Mode
- ★ 200-240VAC Input voltage, High efficiency up to 88%
- ★ Protection: Over Current/Short Circuit
- ★ Class II Power Unit, NO FG
- ★ IP67 waterproof full sealed with Plastic Housing
- ★ Compliance to EN55032,EN62368 requirement
- ★ 30,000Hours long life span, low temperature rise






IP67 ROHS

TECHNICAL PARAMETERS

1. Output

Items	Specs	Unit	Conditions
Rated Output voltage	12	VDC	Ta , rated input voltage, output with rated power
Rated Output Current	3.0	A	Ta ,rated input voltage
Rated Output Power	36	W	Ta , rated input voltage
Tcase Max	80	C°	Ta: 50C° ,230VAC,full load
Efficiency	≥86	%	25°C,rated input voltage, output with max. rated power
Line Regulation	±1.0	%	/
Load Regulation	±1.0	%	/
Voltage tolerance	±2	%	/
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
Rise time	≤60	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	<0.7	A	Vin=180Vac, Full Load
Inrush Current	≤60	A	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
Short circuit	Yes		Hiccup Mode, Auto-recovery after fault condition is removed

4. Temperature and others

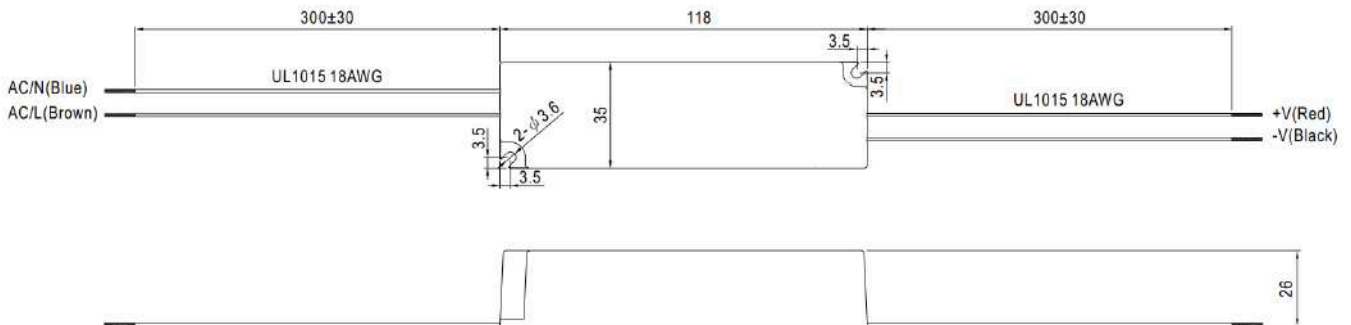
Operating Temperature range	-30 to +70 (Typical25)	C°	Refer to Derating Curve
Storage Temperature range	-40 to +80 (Typical25)	C°	
Humidity	10 ~ 95	%	NON-Condensing
Max Case Temperature	80	C°	50C° ambient temperature, full load
Waterproof Level	IP67 full sealed with silicon gel		
Cooling method	Air convection		
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	118*35*26mm (L*W*H) , 0.22Kg; 60pcs/14.2Kg/0.02CBM		

5. Safety & EMC Standards

Safety	U8750, EN60950-1, EN 62368-1
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 (CISPR22) Class B
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

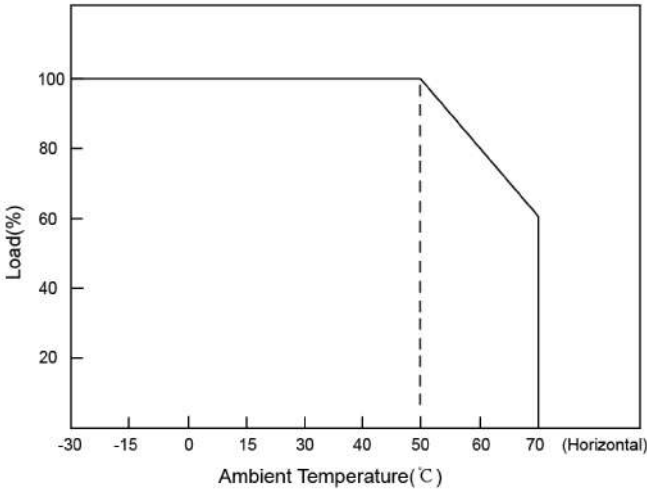
6. Mechanical Mounting

Case Material	Pure PC, Fire-proof level V0
Mounting ways	Striped
Insulation type	Class II, NO FG
IP grade	IP67
Input cables dimension	UL1015, 18AWG, 300±20mm, AC/N-Blue, AC/L-Brown
output cables dimension	UL1015,18AWG, 300±20mm,V+: Red, V-:Black
Dimension	118*35*26mm (L*W*H)

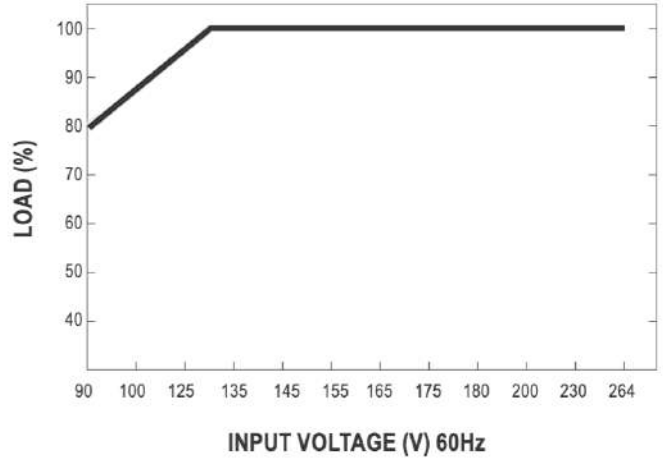


7. Characteristics & Derating

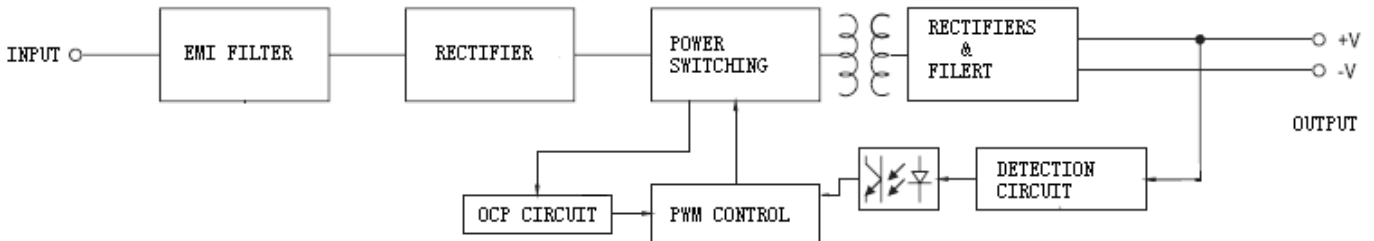
OUTPUT LOAD vs TEMPERATURE



STATIC CHARACTERISTIC



8. Block Diagram



9. Product Label

<ul style="list-style-type: none"> ● AC/N (BLUE) ● AC/L (BROWN) 	<p>AMC FLEX YOUR IDEA, WE MAKE IT</p> <p>CE ROHS IP67</p> <p>SELV</p> <p>APVM-36-12 Class 2 Power Supply</p> <p>PRI: 200-240VAC, 0.7A Max, 50/60Hz, SEC: 12V \equiv 3.0A</p> <p>Rated Output Power: 36W Max</p> <p>Constant Voltage Mode</p> <p>ta: 50 °C, tc: 80 °C Max Made In China</p>	<p>Vo- (BLACK) ●</p> <p>Vo+ (RED) ●</p>
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