

Switch Mode Power Supplies Single Output AC/DC Power Supply

AWSP60-5

Description:

The AWSP60-5 is a single output power supply. This power supply is designed for a wide variety applications where high reliability is desired, including applications for the industrial and telecommunications markets. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class B and EN61000-3-2), and Low Voltage directive (TUV EN60950).

5Vdc

12.0A

60W

±10%

75mV

±1.0%

±0.5%

45kHz

2 years

160x98x38mm

450g net, 490g gross

Natural Convection

<0.03%/°C (10-50°C)

300ms max @ 230VAc

20ms min, 100% Load@230Vac 300ms max, 100% Load@230Vac

At Load>120% 115/230Vac, Shutdown

Zener clamping at Vo>110%, Non auto recovery

Short circuit protection available. Avoid short circuit >30 sec.

I/P-O/P: 3KVac; I/P-FG: 2.5KVac; O/P-FG: 0.5KVac 1 min

73%

Specifications (@25C)

Input Characteristics:

Input Voltage: Input Frequency Range: Max Input Current: Max Inrush Current: Leakage Current: 85-264Vac 47-63Hz 1.3A @ Vin (rated) 20A@110Vac, 40A@220Vac at cold start <3.5mA/240Vac

Output Characteristics:

Output Voltage: Output Current: Output Power: Adjustable Output Range: Ripple & Noise: Load Regulation: Line Regulation: Efficiency: Temperature Drift: Start-up Time: Hold-up Time: Rise-up Time: Over Current Protection: Over Voltage Protection: Short Circuit Protection:

General Specifications:

Switching Frequency: Dimension (LxWxH): Weight: Cooling: Isolation Resistance: Dielectric Strength: Warranty:

Environmental Specifications: Operating Temperature:

Operating Humidity:

Storage Humidity:

Vibration:

Storage Temperature:

-10° to 60°C 20 to 90% RH, non-condensing -25 to 75°C 10 to 95% RH, non-condensing 10-55Hz, 2G 1min/cycle, period of 60min, each X, Y & Z axis

I/P-O/P, I/P-FG, O/P-FG: 500VDC/100Mohms

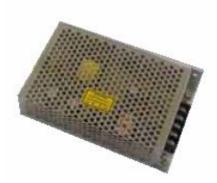
EMC & Safety Specifications:

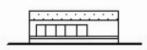
EMC Emissions:

ESD Susceptibility: Radiated Susceptibility: Fast Burst: Surge: Safety Approval:



Conforms to EN55022,VCCI,CISPR22 Class B (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11 EN61000-4-2 (15kV/8kV) EN61000-4-3 (3Vm⁻¹) EN61000-4-3 (3Vm⁻¹) EN61000-4-4 (2kV) EN61000-4-5 (1kV/2kV) UL 60950 (LL File No: E204980) TUV EN60950 (TUV No: 50058679)

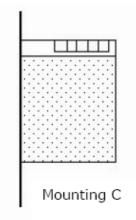








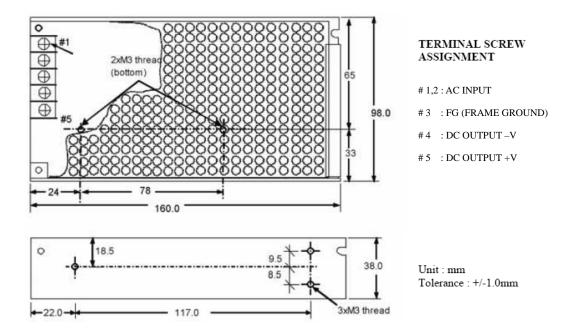
Mounting B



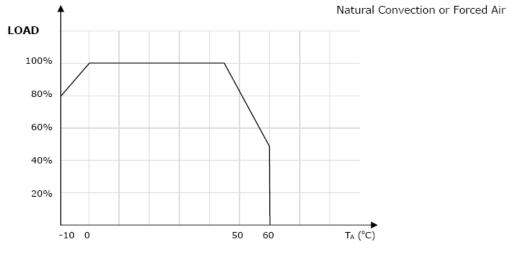


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Outline Dimensions (mm):



Derating Curve:



Connector Types:

Input: Screw Terminals Output: Screw Terminals

RoHS Compliance: This power supply meets the requirements 2002/95/EC, know as the RoHS initiative.

AWSP60 Series

60 Watt Single Output Enclosed Switching Power Supply for General Purpose Applications





SPECIFICATIONS (@25°C)

Input Characteristics

Input Voltage: Input Frequency Range: Max Input Current: Max Inrush Current:

85 - 264VAC 47 - 63Hz 1.3A (max) 20 / 40A @ 110 / 220 VAC (cold start)

Output Characteristics

Minimum Load: Adjustable Output Range: ±10% Regulation: Hold-up Time: Rise-up Time: Over Current Protection: Over Voltage Protection:

Ripple/Noise (pk-pk 20MHz): 5/12/24V = 75/100/100mV ±1.0% Load / ±0.5% Line 30ms min, 100% Load @ 220 VAC 300ms max @ 220 VAC >120%, Auto-Recovery >110% (Zener Diode)

No minimum load

General Specifications

Switching Frequency: Dimension (LxWxH): Weight: Warranty:

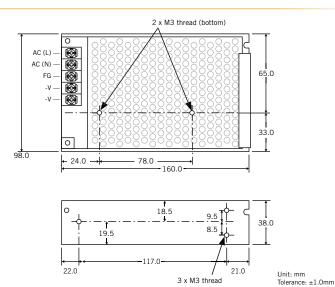
45kHz 6.30 x 3.86 x 1.50" / 160 x 98 x38mm 450g 2 years

Environmental Specifications

Operating Temperature:	0~+45°C Full Load,			
	derate 3.33%/°C up to 60°C			
Storage Temperature:	-25~+75°C			
Cooling:	Convection Cooled Operation			
Humidity:	10~95% RH, non-condensing			
Vibration:	10 - 55Hz, 2G 1min / cycle,			
	period of 60min, each axis			
Reliability:	>150,000 Hours MTBF			

EMC & Safety Specifications

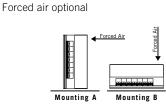
EMC Emissions:	EN55022,VCCI,CISPR22 Class B (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11
Safety Approval:	UL 60950 (UL File No: E204980)
	TUV EN60950 (TUV No: 50067240)
Dielectric Strength:	Input-Output 3kVAC / 1min
	Input-Ground 2.5kVAC / 1min
Insulation Resistance:	Output-Ground: >100Mohm / 500VDC

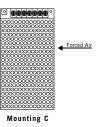


CONNECTOR TYPES

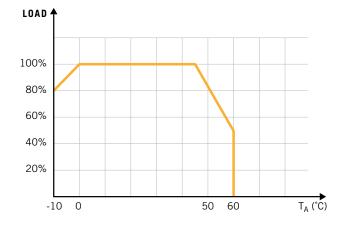
Input: Screw Terminals Output: Screw Terminals

MOUNTING OPTIONS





DERATING CURVE



Part Number	Voltage	Current	Efficiency
AWSP60-5	5.0V	12A	73%
AWSP60-12	12V	5.0A	78%
AWSP60-24	24V	2.5A	81%

POWER SUPPLY CATALOG