AWSP40-12

Description:
The AWSP40-12 is a single output power supply. This power supply is designed for a wide variety of 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.

Specifications (@25C)

Input Characteristics:
- Input Voltage: 85-264Vac
- Input Frequency Range: 47-63Hz
- Max Input Current: 1.0A @ Vin (rated)
- Max Inrush Current: 20A@110Vac, 40A@220Vac at cold start
- Leakage Current: <3.5mA/240Vac

Output Characteristics:
- Output Voltage: 12Vdc
- Output Current: 3.3A
- Output Power: 40W
- Adjustable Output Range: ±10%
- Ripple & Noise: 100mV
- Load Regulation: ±0.5%
- Line Regulation: ±0.5%
- Efficiency: 77%
- Temperature Drift: <0.03%/°C (10-50°C)
- Start-up Time: 300ms max @ 230Vac
- Hold-up Time: 30ms min, 100% Load@230Vac
- Rise-up Time: 300ms max, 100% Load@230Vac
- Over Current Protection: At Load>120% 115/230Vac, Auto recovery
- Over Voltage Protection: Zener clamping at Vo>110%, Non auto recovery

General Specifications:
- Switching Frequency: 50kHz
- Dimension (LxWxH): 129x98x38mm
- Weight: 360g net, 400g gross
- Cooling: Natural Convection
- Isolation Resistance: I/P—O/P, I/P—FG, O/P—FG: 500VDC/100Mohms
- Dielectric Strength: I/P—O/P: 3kVac; I/P—FG: 2.5kVac; O/P—FG: 0.5kVac 1 min
- Warranty: 2 years

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

EMC & Safety Specifications:
- EMC Emissions: Conforms to EN55022, VCCI, CISPR22 Class B (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11
- ESD Susceptibility: EN61000-4-2 (15kV/8kV)
- Radiated Susceptibility: EN61000-4-3 (3Vm°)
- Fast Burst: EN61000-4-4 (2kV)
- Surge: EN61000-4-5 (1kV/2kV)
- Safety Approval: UL 60950 (UL File No: E204980)
Outline Dimensions (mm):

TERMINAL SCREW ASSIGNMENT

# 1,2 : AC INPUT
# 3 : FG (FRAME GROUND)
# 4 : DC OUTPUT –V
# 5 : DC OUTPUT +V

Unit : mm
Tolerance : +/- 1.0mm

Derating Curve:

Connector Types:
Input: Screw Terminals
Output: Screw Terminals

RoHS Compliance: As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

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