ESPi – 15V AC/DC Adapter Power Supply

INPUT:

- Rated Voltage: 100 – 240Vac
- Variation Range: 90 - 264Vac
- Rated Frequency: 50/60Hz
- Variation Frequency: 47 - 63Hz
- Input Current: .75Amps max at rated load
- Standby Input Power: No More Than 0.5W Under the Rated Input Voltage (100-240Vac)
- In-rush Current: 25℃ 230Vac 30 Amps Max.
- AC: Leakage Current: 264Vac 0.25mA Max.

OUTPUT:

- 15VDC 2.0 Amps 30W
- Combined Load/Line Regulation ± 1% / ± 5%
- Turn on delay time: 3 Second Max.at 100Vac input and output Max. load
- Rise time: 40 MS Max.at 100Vac input and output Max load
- Hold up time: 5 MS Min at 100Vac input and output Max. Load

EFFICIENCY:

- Energy Star Compliance Level V Requirement
- Average Efficiency achieve 80% at 115Vac input
- Average Efficiency achieve 80% at 230Vac input

PROTECTION FUNCTION:

- Short circuit protection:

  An output short circuit is defined as any output impedance of less than 0.1 ohms. The power supply will be normally without damage to overseers of to the unit (components, connectors, etc) under the input conditions. The power supply must withstand a short during wiring. Note: The power supply has over current protection but has no over voltage protection.

ENVIRONMENTAL REQUIREMENT:

- Operating Ambient Temperature:

  0℃ to 25℃, Full load, Normal operation

- Non-operating Ambient:

  -25℃ to +55℃

- Operating Ambient Humidity:
  20% - 80%, Normal operating

VIBRATION:

- Operating:
- IEC 721-3-3 3M3
- 5 - 9Hz, A=1.5mm
- 9- 200Hz, Acceleration 5m/s^2
- Transportation:
  IEC 721-3-2 2M2
  5-9Hz, A = 3.5mm
  9 - 200Hz, Acceleration = 5m/S^2
  200 - 500Hz, Acceleration = 15m/S^2
  Axes, 10 cycles per axis
- Dropping:
  Fallen from 0.94M to the 10mm wooden floor, there should be no damage on the plugs or housing

SAFETY AND EMI REQUIREMENT:

- EN60950 UL60950
- Insulation Resistance: 500VDC primary to the secondary input impedance of 100MΩ (Min)
- DIELECTRIC STRENGTH Hi-Pot:
- Primary to secondary,3000Vac/5mA/60s
- Primary to Case,3000Vac/5mA/60s

EMI STANDARD:

- EN55022 class B rules FCC Part15

MECHANICAL REQUIREMENT:

- Enclosure:
  L78.9 x W68 X H60.3mm
  Screw terminals for output power. Terminals must use a captive retaining washer.
  LED light to indicate that the power supply is functioning properly.