

HiTRON

ON-BOARD UNIVERSAL INPUT AC-DC ENCAPSULATED MODULAR POWER SUPPLIES 16 WATTS SINGLE & DUAL OUTPUT HAM16S & HAM16D SERIES



FEATURES:

- ON-BOARD AC/DC MODULAR POWER SUPPLIES
- UNIVERSAL AC INPUT RANGE
- COMPACT IN SIZE
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB.22/ FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac.
Input Frequency: 47-63 Hz. (50/60 Hz. Nom.).
Input Current: 0.33A @115Vac/0.16A @230Vac typical.
Inrush Current: 32.5A typical peak @ 230Vac.
Input Fuse: Use external fuse. 1.0A/250Vac. for the primary fuse is suggested.
Dielectric Withstand: Meet IEC950.
 3,000Vac-Output/Input.
 1,500Vac-Input/GND.
 500Vac-Output/GND.
EMI: Meet CISPR PUB.22 / FCC Class B.
Hold-up time: 20mS @115Vac, 120mS @230Vac typical.
Earth Leakage: Less than 3.5mA @230Vac typical.
Remote On/Off: TTL/CMOS-Compatible Output Control.
 Positive Logic version for Standard set up:
 ON(Enable)=Open(or 2.5-5.0Vdc above Com)
 OFF(Disable)=Short(or 0-0.8Vdc above Com)
 Negative Logic version option available by adding a "N" suffix to the end of Model #.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: 12-17 Watts typical.
Output Indicator: LED.
Line Regulation: Various with output voltage.
 HAM16S $\pm 0.1\%$ typical.
 HAM16D $\pm 0.5\%$ typical.
Load Regulation: Various with output voltage.
 HAM16S $\pm 1.0\%$ typical.
 HAM16D $\pm 2.0-4.0\%$ typical.
Noise & ripple: 1.0% typical peak to peak.
OVP: Built-in on main output.
Adjustability: From -10% of main output till OVP.
Overload Protection (OLP):
 Fully protected against output overload and short circuit.
 OLP set at about 125-150% rating output wattage.
 Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: 70-82% typical. (Various with output voltage).
Switching Frequency: 83K Hz.
Circuit Topology: Fixed Frequency Flyback circuit.
Transient Response: Typical peak deviation 250mV,
 Recovery time < 3mS for a 25% load change.
Case: Impact resistant thermo-plastic enclosure.
Power Density: 3.10Watts. / Cubic inch.
Safety Standard: EN60950/ UL1950 Class I.
MTBF: 110,000 hours. Mil Std 217, 25°C.
Operating Temperature: -10 to +70°C range.
 -10°C to +50°C full load without derating.
 From +50°C, derating linearly to half load @+70°C.
 (Refer to Derating Chart.)
Storage Temperature: -20°C to +85°C.
Temperature Coefficient: 0.02% /°C.
Humidity: Up to 95%RH, Non-condensing.
Cooling: Convection cooling for +50°C @ full load.
 At least 100LFM moving air is recommended for full load >+50°C in a confined area.
Commercial Grade only.

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load Regulation measured from Full-Load (F-L) to Half-Load (H-L) at nominal input and others loaded at half load.



Due to requests in market and advances in technology, specifications subject to change without notice.

