



FEATURES

- 5" x 3" x 1.5" Footprint
- 12V/24V/48V Output with 5V/1A Standby Power
- 2 X MOPP
- Remote On/Off Control
- Medical & ITE Dual Approvals



INPUT SPECIFICATIONS

Input Voltage Range 90-264 VAC
 Input Frequency 47-63 Hz
 Input Current 3.6A rms max. @ full load
 Inrush Current 100A @ full load, at 25°C cold start
 Earth Leakage Current 230 µA max. @ 264 VAC, 63Hz
 Touch Current 60 µA max. @ 264 VAC, 63Hz
 No Load Power Cons. 0.21W max.

OUTPUT SPECIFICATIONS

Output Power Ratings See table
 Output Voltage See table
 Load Regulation ±5% typical
 Ripple and Noise* 1% Vp-p max. for main output
 Over Voltage Protection Shut down
 Over Current Protection Shut down, Auto-recovery
 Short Circuit Protection Shut down, Auto-recovery
 Temperature Coefficient ±0.04%/°C max.
 Transient Response 0.5 ms for 50% load change, typ.
 Standby Power 5V/1A
 Fan Power 12V/0.3A or 24V/0.2A max.

*Peak to peak with 20MHz bandwidth and a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor at nominal line voltage and full load.

STANDARDS & COMPLIANCE

IEC/EN 60601-1-2, 4th Ed.... EMC & Immunity Performance
 EN 55011 Class B, conducted & radiated
 FCC, CISPR11 Class B, conducted & radiated
 EN61000-3-2 Harmonic distortion, Class A & D
 EN61000-3-3 Line flicker
 EN61000-4-2 ESD, ±15 KV air and ±8 KV contact
 EN61000-4-3 Radiated immunity, 3V/m
 EN61000-4-4 Fast transient/burst, ±2 KV
 EN61000-4-5 Surge, ±1 KV diff., ±2 KV com.
 EN61000-4-6 Conducted immunity, 3 Vrms
 EN61000-4-8 Magnetic field immunity, 3A/m
 EN61000-4-11 Voltage dip immunity,
 30% reduction for 500 ms,
 60% reduction for 100 ms,
 >95% reduction for 10 ms
 Safety Standards IEC/EN 60601-1 (Edition 3.1)
 ANSI/AAMI ES 60601-1:2012
 CSA C22.2 No. 60601-1:2014
 IEC/EN/UL 60950-1 (2nd Edition)
 IEC/EN/UL 62368-1
 Agency Approvals UL, cUL, TUV, CB, CE
 Other Compliance RoHS, CEC, DoE level VI,
 ErP Stage 2

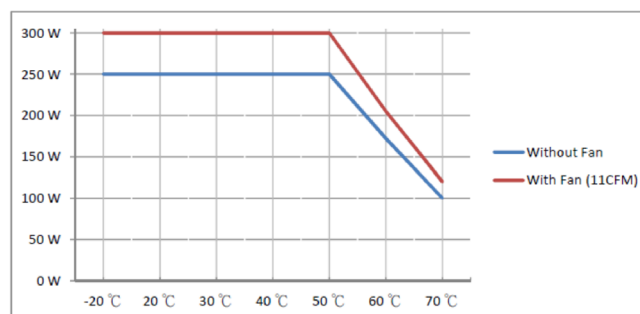
MODELS LIST

| Product No. | Output | | | | | Ripple & Noise* |
|-------------|---------|-------------|-------|--------------------|-------|-----------------|
| | Voltage | @Convection | | @11 CFM Forced Air | | |
| | | Current | Power | Current | Power | |
| TTM305-12 | 12V | 16A | 197W | 25A | 305W | 120mV |
| | 5Vsb | 1A | | 1A | | 100mV |
| TTM305-24 | 24V | 10.4 | 255W | 12.5A | 305W | 240mV |
| | 5Vsb | 1A | | 1A | | 100mV |
| TTM305-48 | 48V | 5.2A | 255W | 6.25A | 305W | 480mV |
| | 5Vsb | 1A | | 1A | | 100mV |

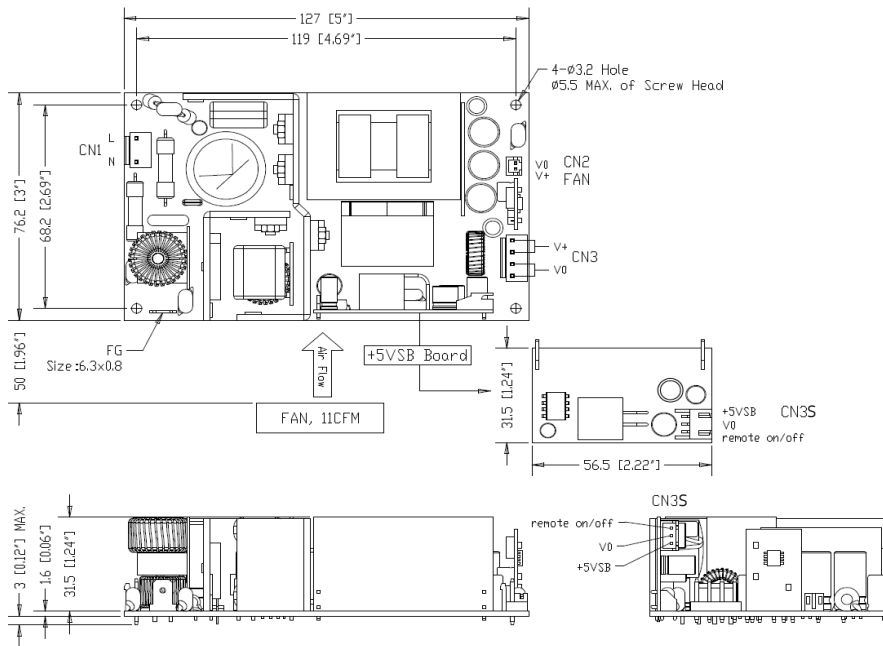
GENERAL SPECIFICATIONS

Switching Frequency 100 kHz
 Power Factor 0.95 min.
 Efficiency 90% min. @ full load
 Hold-up Time 10 ms min. @ full load
 Operating Temperature 0°C to +70°C
 Derating See chart
 Storage Temperature -20°C to +80°C
 Operating Humidity 20% to 80% non-condensing
 Storage Humidity 10% to 90% non-condensing
 Withstand Voltage 4,000 VAC, input-output (2 MOPP)
 1,500 VAC, input-ground (1 MOPP)
 1,500 VAC, output-ground
 MTBF 300K hours minimum at full load,
 25°C ambient, calculated per
 Telcodia SR-332

POWER DERATING CHART



MECHANICAL SPECIFICATIONS



| CONNECTOR | PIN | FUNCTION (12V, 24V Output) | FUNCTION (48V Output) |
|-----------|-----|----------------------------|-----------------------|
| CN1 | 1 | NEUTRAL | NEUTRAL |
| | 2 | NC | NC |
| | 3 | LINE | LINE |
| CN2 | 1 | *FAN POWER | *FAN POWER |
| | 2 | VO- | VO- |
| CN3 | 1 | VO- | VO- |
| | 2 | VO- | VO- |
| | 3 | VO- | VO+ |
| | 4 | VO+ | VO+ |
| | 5 | VO+ | NA |
| | 6 | VO+ | |
| CN3S | 1 | +5V STANDBY | +5V STANDBY |
| | 2 | VO- | VO- |
| | 3 | REMOTE ON/OFF | REMOTE ON/OFF |

*Fan Power: +12VDC/0.3A for 12V and 48V output, +24VDC/0.2A for 24V output

NOTES:

- Dimensions: mm [inches]
- Tolerance: ± 0.1 mm unless otherwise stated
- CN1: JST P/N B2P3-VH 2 pins wafer 7.92 mm pitch; Mating connector: JST P/N VAR-2
- CN2: JST P/N B2B-PH-K-S 2 pins wafer 2.0 mm pitch; Mating connector: JST P/N JST PHR-2
- CN3 for 12V/24V output: JST P/N B6P-VH 6 pins wafer 3.96 mm pitch; Mating connector: JST P/N VHR-6N
- CN3 for 48V output: JST P/N B4P-VH 4 pins wafer 3.96 mm pitch; Mating connector: JST P/N VHR-4N
- CN3S: JST P/N S3B-XH-A 3 pins wafer 2.5mm pitch; Mating connector: JST P/N JST XHP-3
- Weight: 360g (0.79 lbs.) approx.