

Switching Power Supply

380 WATT / SINGLE OUTPUT

KEY FEATURES:

- 380 Watts output Power
- 12VDC and 24VDC Single Output models
- U Channel Package measuring only 3.5" x 6" x 1.5"
- High Density in excess of 11W/in³
- 90% Efficiency typical
- OR'ing FET on output for 1 + 1 applications (optional)
- High Reliability in excess of 200,0000 Hours
- International Medical Safety Approvals
- Class B Radiated and Conducted Emissions
- IT versions also available



| MODEL | Output Voltage (V) | Regulation | Maximum Current (A) | Ripple/Noise (mVp-p) | Standby (Vsb) |
|-------------------|--------------------|------------|---------------------|----------------------|---------------|
| ARFU-3511M-1205 | +12.0 | +/- 1% | 29 | 120 | +5V/2A |
| ARFU-3811M-2405 * | +24.0 | +/- 1% | 15.8 | 120 | +5V/2A |

* includes 12V/1A fan output

| INPUT SPECIFICATIONS | |
|-------------------------|--|
| Input Voltage | 90 – 264 VAC |
| Input Frequency | 47 – 63 Hz |
| Input Current | Maximum 5A @ 100 VAC |
| Inrush Current | 50A @ 230 VAC |
| Input Protection | Fuse |
| Leakage Current | Maximum 300 uA |
| Power Factor Correction | Active PFC to meet or exceed EN61000-3-2 |

| OUTPUT SPECIFICATIONS | |
|------------------------|---|
| Setpoint Accuracy | +/- 1% |
| Total Output Power | 380W (350W for 12V model) |
| Hold-up Time | 16ms @ 75% load |
| Efficiency | 90% typical |
| Minimum Load | No minimum load |
| Isolation (HiPot) | 1500 VAC Input to Ground |
| Remote Sense | Compensates for up to 0.5V drop |
| AC_Fail | Goes low (<0.4V) at least 6ms before output drops in the event of an AC input failure |
| ExtOff / PSON (option) | Turns off / on the outputs when signal is pulled high / low. |
| PowerGood | Goes high (> 2.4V) within 100ms - 500ms of output in regulation. Goes low (<0.4V) at least 1ms before output out of regulation. |

| ENVIRONMENT SPECIFICATIONS | |
|----------------------------|---|
| Operating Temperature | 0 °C to +70 °C Derate linearly above 50 °C to 50% load @ 70 °C |
| Storage Temperature | -40 °C to +85 °C |
| Forced Air Cooling | 15CFM from AC to DC side |
| MTBF | 200 kHrs to MIL-HDBK-217F at 25 °C |
| Shock | Storage: 30G , 11ms, 1/2 sine wave pulse, 6 axis Operation: 5G , 11ms, 1/2 sine wave pulse, 6 axis |
| Vibration | 2G rms, 5Hz to 500kHz, 3 axis |

| PROTECTION | |
|------------------|--|
| Overvoltage | Latch-mode (Cycle AC input or ExtOff/ PSON to reset) |
| Overpower | Latch-mode (Cycle AC input or ExtOff/ PSON to reset) |
| Short Circuit | Latch-mode (Cycle AC input or ExtOff/ PSON to reset) |
| Thermal (option) | Auto-recovery / latch off |

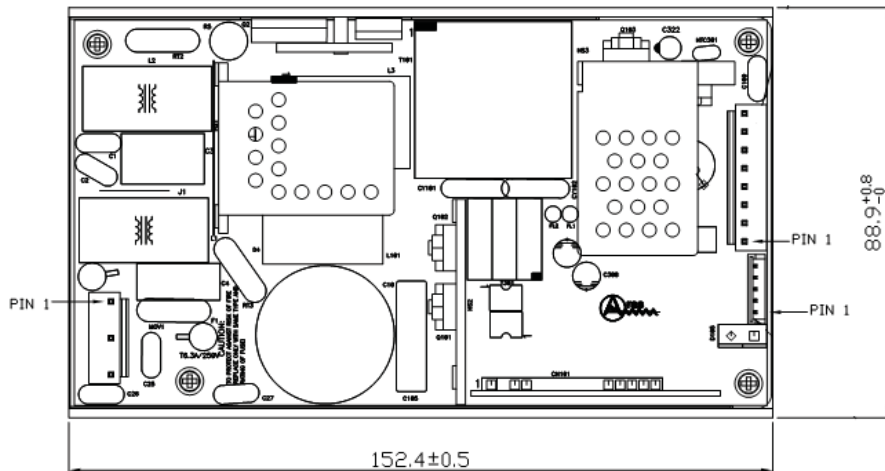


COMPLIANCE

| | |
|-------------------------|--|
| EMI | FCC Class B / EN55022 Class B under all rated input and load conditions |
| Electrostatic Discharge | EN61000-4-2: Contact Discharge- Contact discharge in 2kV increments to 6kV for metallic surfaces including connector bodies. 10 discharges pretest point at each voltage: 5 positive polarity and 5 negative polarity. Air discharge – Air discharge in 2kV increments to 8kV for scams and non-metallic user accessible surfaces. 10 discharges pretest point at each voltage: 5 positive polarity and 5 negative polarity. |
| Radiated Susceptibility | EN61000-4-3: Electromagnetic Field Strength 3V/m |
| EFT / Bursts | EN61000-4-4: Direct Coupling Line to Ground Reference Plane: 1kV increments up to 2kv for a minimum of 1 min. at each voltage. Direct Coupling Neutral to Ground Reference Plane: 1kV increments up to 2kV for a minimum of 1 min. at each voltage. Direct Coupling Ground to Ground Reference Plane: 1kV increments up to 2kV for a minimum of 1 min. at each voltage |
| Surges | EN61000-4-5: The peak value of the bi-directional surge waveform shall be 2kV for common mode and 1kV for differential modes of transient surge injection. No unsafe operation or no user noticeable degradation is allowed under any condition. |
| Conducted Immunity | EN61000-4-6: 0.15~800MHz, 10V, 80% AM |
| Voltage Dips | EN61000-4-10: 95% Dip & 10ms, 30% Dip & 500mS |
| Voltage Interruptions | EN61000-4-11, 95% reduction, 5s |
| Fluctuations & Flicker | EN61000-3-3 |
| Harmonic Distortion | EN61000-3-2 Class D |
| Safety Certifications | cTUVus UL/EN60601, CB Report IEC 60601, CE |

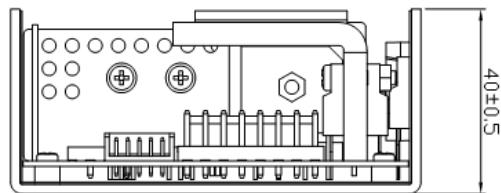
Typical Outline Drawing:

(REFER TO PRODUCT MECHANICAL DRAWING FOR COMPLETE INFORMATION)



SIGNALS CONNECTOR

| Pin | Signal |
|-----|-------------|
| 1 | PowerGood |
| 2 | ExtOff/PSON |
| 3 | +5Vsb |
| 4 | GND |
| 5 | +12Vf |



DERATING

