DATASHEET

ARFU-2511M-XX

Switching Power Supply

250 WATT / SINGLE OUTPUT

KEY FEATURES:

- 250 Watts output Power
- 12VDC and 24VDC Single Output models
- U Channel Package measuring only 3.5" x 6" x 1.5"
- 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
- 3 Year Warranty
- IT versions also available

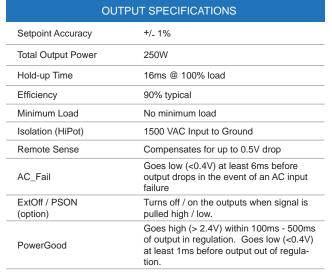


MODEL	Output Voltage (V)	Regulation	Maximum Current (A)	Ripple/Noise (mVp-p)	Standby (Vsb)
ARFU-2511M-1205	+12.0	+/- 1%	20.8	120	+5V/2A
ARFU-2511M-2405 *	+24.0	+/- 1%	10.4	120	+5V/2A

* 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 Currrent	Maximum 300 uA	
Power Factor Correction	Active PFC to meet or exceed EN61000- 3-2	

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	

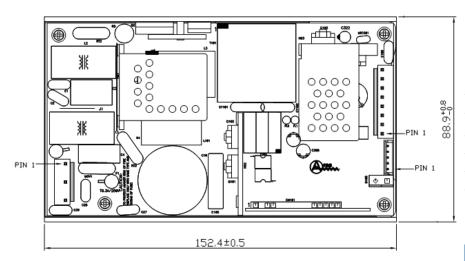


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COMPLIANCE		
EMI	FCC Class B / EN55022 Class B under all rated input and load conditions	
Electrostatic Discharge	EN61000-4-2: Contact Discharge- Contact discharge in 2kV increments to 6kV for metallic surfaces including connector bodies. 10 discharges 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	EN610000-4-6: 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			

