

# Switching Power Supply

240 WATT / SINGLE OUTPUT

### KEY FEATURES:

- 240 Watts Output Power
- 24VDC Single Output models
- Enclosed Package measuring 48mm x 117.6mm x 124mm
- Din Rail mounting
- 92% Efficiency typical
- High Reliability in excess of 200,000 Hours
- International Safety Approvals
- Class B Radiated and Conducted Emissions



MODEL	Output Voltage (V)	Regulation	Maximum Current (A)	Ripple/Noise (mVp-p)	Standby
ARP-2411-00	+24.0	+/- 1%	10	100	N/A

INPUT SPECIFICATIONS	
Input Voltage	85 – 264 VAC
Input Frequency	47 – 63 Hz
Input Current	Maximum 3.2A @ 85 VAC
Inrush Current	30A @ 230 VAC
Input Protection	Fuse
Power Factor Correction	Active PFC to meet or exceed EN61000-3-2

OUTPUT SPECIFICATIONS	
Setpoint Accuracy	+/- 1%
Total Output Power	240W
Hold-up Time	20ms @ Full Load
Efficiency	90% typical
Minimum Load	No minimum load
Isolation (HiPot)	1500 VAC Input to Ground
AC_Fail	Goes low (<0.4V) at least 6ms before output drops in the event of an AC input failure
PowerGood	Relay contact closed when output is above 22V. Relay opens when output falls below 21V.

ENVIRONMENT SPECIFICATIONS	
Operating Temperature	-40 °C to +70 °C Derate 2% / °C above 60°C
Storage Temperature	-40 °C to +85 °C
Forced Air Cooling	Convection Cooled
MTBF	200 kHrs to Telcordia SR-332 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	AutoRecover
Overpower	AutoRecover
Short Circuit	AutoRecover
Thermal (option)	Autorecover

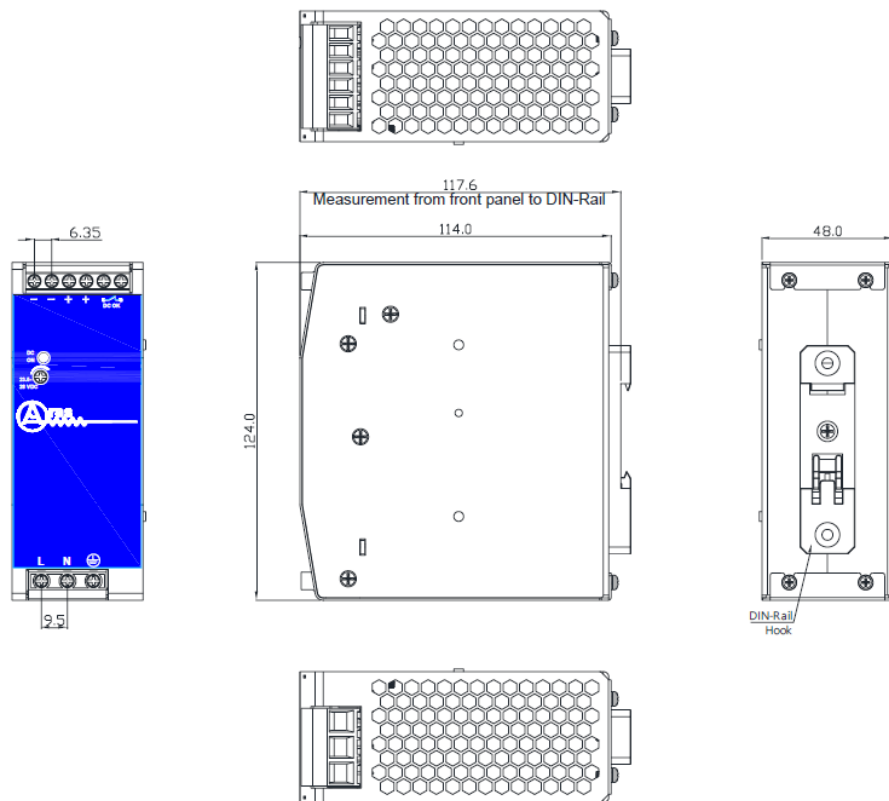


**COMPLIANCE**

EMI	CISPR11 / EN55011 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 10V/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 A
Safety Certifications	UL/cUL EN62368, CB Report IEC 62368, CE

**Typical Outline Drawing:**

(REFER TO PRODUCT MECHANICAL DRAWING FOR COMPLETE INFORMATION)



**INPUT CONNECTOR**

Terminal	Signal
1	AC LINE
2	AC NEUTRAL
3	EARTH

**OUTPUT CONNECTOR**

Terminal	Signal
1	GND
2	GND
3	+24Vdc
4	+24Vdc
5	Relay Contact 1
6	Relay Contact 2

