AC SMARTStart® Gen II

The Rugged AC Switched Power Distribution Unit

Built to Withstand Extreme Temperatures, Mechanical Shock and Vibration, and Other Harsh Elements Associated With DOD Applications

The **AC SMARTStart® Gen II** is an AC switched power distribution unit that meets MIL STD 1686C ESD, MIL STD 810F, and MIL STD 461E EMC and is suitable for a number of tactical operations and applications requiring AC power. The **AC SMARTStart® Gen II** provides 120 VAC or 220 VAC power to 8 AC loads while monitoring input line voltage and total load current.

The user is able to define power up sequence order and time delay between individual mission devices at start up. Additionally, and most importantly, the user is able to lockout receptacles that are not needed and prevent unauthorized loads from being added that may inadvertently exceed the permitted load of the PDU.

Remote power monitoring and power management is performed via 10/100 Base-T LAN Telnet or an onboard Simple Network Management Protocol (SNMP) agent capable of SNMPv2 encrypted communications.

Features & Benefits

- User defined power up sequence order
- User defined start up delays
- Receptacle lock-out function to prevent exceeding the permitted load
- Remote power monitoring and power management via 10/100 base T LAN Telent or onboard SNMP
- Wide operating temperature range: - 40° C to + 60°C
- Channel output on/off sent via SNMP
- Current monitoring and feedback via SNMP
- Current limiting with sequence start-up
- Fully programmable sequence & delay on a per channel basis

Custom Application Solutions

- 20 VAC or 220 VAC Configuration
- Designs for 30, 60 Amps Possible
- Protection for Harsh Environments
- Rugged Field Packaging
- 1U or 2U Designs
- 8 or 16 outlet configuration
- NEMA or IEC Outlets
- Digital Meter
- Customized Input/Output Voltages
- Single or 3 Ø design

api technologies corp.

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SPECTRUM POWER

Ideal Applications

- Mission Equipment Cases
- Transit Case for “MEP”
- Modular Equipment Packages
- Communications & Telemetry Cases
- Defense Mobile Command Vehicles
- Unmanned Vehicles & Vessels
- Mobile Command Posts
- Towed Radar Platforms
- Towed Generator Platforms

Designed to Meet MIL-STD 810F Environment Standards

- Thermal Shock
- Salt Fog
- Blowing Sand
- Blowing Dust
- Fungus
- Shock
- Vibration
- Water Tightness to IP67
- Ground Bond
- Mechanical Shock
- MIL -STD-1275D for Vehicle System Power Supplies
- MIL-STD-1686C ESD Control
- MIL-STD-461E EMC Compliance

The architecture of the **AC SMARTStart® Gen II** has been hardened to meet extreme temperature requirements as well as the mechanical shock and vibration attributes associated with defense applications. To protect the LAN connector from dust and debris during transit, an RJFC2G protective cap is utilized. Also, the unit features a wide operating temperature range of -40C to 60˚C to assure constant communications no matter what the climate may be. If desired, the PDU can be equipped with an external temperature sensor to enable a cool down or hot start mode depending on the ambient temperature experienced in the enclosure or structure that the PDU occupies.

Another enhancement the **AC SMARTStart® Gen II** features is the addition of surge protection. The input and outputs are protected from voltage surges with the use of MOVs. The peak surge current rating is 10,000 Amps with an 8/20µS pulse. The maximum rated clamping voltage is 340 Volts with an 8/20µS pulse at 100 Amps.

Units are available with NEMA 5-20R outlets or IEC C13 outlets. Current rating for the PDU is 20 Amps; however, higher ratings and 3 Phase solutions are also available.

Specifications	7608AD2012SNHR
Power Entry Connector	MS 3454 22 Shell
Input Voltage	120 VAC or 220 VAC
Input Frequency	50 - 60 Hz
Input Current	20A Maximum
Power Cord	5’
Overload Protection	(1) 1P/20A UL489 Circuit Breaker
Output Connectors	(8) 5-20R
Output Voltage	120 VAC or 220 VAC
Output Current	20A Total Combined Load
Operating Temperature	- 40° C to + 60°C
Dimensions	17.22”L X 8”W X 1.745”H

(Form factor and all parameters can be modified to suit end application)
*Note each of our designs can be readily reconfigured to meet customer specific use cases