

AC SMARTStart® High Reliability (HR) Series

Tactical Switched AC Power Distribution with Wide Temperature Operating Range



The AC SMARTStart® HR Series is a high reliability tactical AC switched power distribution unit that is suitable for a number of applications. This unit is designed to meet MIL-STD 810 and MIL-STD 461 requirements including shock, vibration, and wide temperature operating range. The AC SMARTStart® HR Series provides 120 VAC or 220 VAC power to 8 or 16 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, Web Interface, or an onboard Simple Network Management Protocol (SNMP) agent capable of SNMPv2 communications. The architecture of the AC SMARTStart® HR Series has been hardened to meet extreme temperature requirements ranging from -40°C to 60°C 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 optional RJFC2G protective cap can be utilized. 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 and powered devices occupy.

Another enhancement the tactical switched AC power distribution unit 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 options for the PDU include 20 or 30 Amps; however, higher ratings and three phase solutions are also available.

Applications

- Mission Equipment Cases
- C4ISR
- Tactical Operations Centers
- Modular Equipment Packages
- Communications & Telemetry
- Defense Mobile Command Vehicles
- Unmanned Vehicles & Vessels
- Mobile Command Posts
- Towed Radar Platforms
- Towed Generator Platforms
- Oil & Gas Industry



Technical Spec:	7608AD2012SNHR (1U Single Phase)	7608AD3012SNHR2 (2U Single Phase)	7608AD3024SNHR1 (1U Split Phase)
Power Entry Connector	MS 3454 22 Shell	5-30P Input Plug	MS3454-W22-22P
Input Voltage	120 VAC	120 VAC	220 VAC
Input Frequency	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz
Input Current	20A Maximum	30A Maximum	30A Maximum
Power Cord	5'	10'	10'
Overload Protection	1 x 1P/20A UL489 Circuit Breaker	2 x 1P/20A UL489 Circuit Breaker	2 x 2P/20A UL489 Circuit Breakers
Output Connectors	(8) 5-20R	(16) 5-20R	240VAC on 6 x C19 120VAC on 2 x C13
Output Voltage	120 VAC	120 VAC	120 VAC & 220 VAC
Output Current Total Combined Load	20 Amp	30 Amp	30 Amp
Operating Temperature	- 40° C to + 60°C	- 40° C to + 60°C	- 40° C to + 60°C
Dimensions (L x W x H)	17.22"L X 8"W X 1.745"H	17.25"L X 8"W X 3.5"H	17.22"L X 8"W X 1.745"H

Note: numerous configurations are available beyond this list. Please call a sales representative today to learn more at 1 (888) 588-3448. Each of our designs can be readily reconfigured to meet customer specific use cases (Form factor and all parameters can be modified to suit end application)

Features & Benefits

- User defined power up sequence order and delay
- Receptacle lock-out function to prevent exceeding the permitted load
- Remote power monitoring and power management via Telnet, SNMP, or Web Interface
- 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



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