

AC Power Master

Advanced Powering Unit for Test & Simulation Equipment



What is the AC Power Master?

The AC Power Master is a 19 inch rack mountable power distribution unit (PDU) that distributes both 3 Phase and Single Phase AC voltage to several output circuits. The PDU provides overload current protection via a primary circuit breaker and seven branch circuit breakers. This advanced unit also provides Emergency Power Off (EPO) capability locally by means of an EPO switch and remotely through an

external interface. The inherent benefit of this product is its ability to minimize inrush current by sequencing the individual outlets with a predefined delay. These features make the AC Power Master the ideal power solution to power hungry Simulation Equipment or Mobile Training Centers.

Mode & Function Switches

The front panel of the PDU contains the mode and function switches. The mode switch is used to set the PDU into remote or local operation. Once implemented, the "REMOTE" position can be used with the RS-422/485 communication port to control output as well as provide status feedback. The "LOCAL" position is used to operate the PDU in conjunction with the mode switch as follows: The "OFF" position of the function switch is used for local or remote operation and disables output relays, not allowing power to the rear panel under any circumstances. The "ON" position of the function switch is used for local or remote operation to enable output relays to be energized. The "START" position of the function switch is used for local operation only and will initiate the default output start sequence for the PDU.

Design Features

- 208 VAC Input & 208/120 VAC Output
- 70 Amps/Phase Current
- NEMA L21-30R, L5-20R, & 5-20R Outlets
- Three Phase and Single Phase Over Current Protection
- Power Indication for Each Branch Circuit
- Power Sequencing
- Safety Protection via EPO Interface, Shorting Plugs, and Local EPO Button/Switch
- 14VAC EPO Output
- Elapsed Time Indicator
- Optional RS-422/485 Remote Control and Status
- Common Mode and Differential Mode Filtering
- Function and Mode Switches (for Remote, Local, On, Off, & Start Features)
- Rugged Metal Construction
- Additional EMI Filter Option



Typical AC Power Master Applications

- Mobile Training Centers
- Simulation Equipment
- Test Equipment
- Transit Case for "MEP" Modular Equipment Packages
- Towed Generator Platforms
- Unmanned Vehicles & Vessels
- Towed Radar Platforms
- Mobile Command Posts

Designs for Every Application

Spectrum Power Management Systems specializes in tailoring unique rugged solutions. Balanced loads and reliable circuit protection are critical to providing reliable power to Mobile Training Centers and Simulation Equipment. We can apply technology for AC transfer switching, onboard SNMPv3 TCP/IP communications, and monitoring of each load and breaker status. We can integrate and configure a solution with as many or as few features to meet each application. Let us help you configure the ultimate power distribution solution!

Custom Design Capabilities

- Single Phase AC
- Three Phase AC
- -48, +12, or +24/+28 VDC
- 0U, 1U, or 2U Rack Mount Designs
- Non-Rack Mount Designs
- Variety of Receptacles and Plugs
- Circuit Protection with UL-Listed Circuit Breakers
- Audible Alarm
- Wide Operating Temperature Range (-40°C to 60°C)
- Local Power Meter
- Remote Capture of Power Draw & Temperature
- Remote Cycling & Sequencing of Device Loads
- Automatic Transfer Switch (ATS)
- Surge Suppression
- Emergency Power Off (EPO)
- Elapsed Time Indicator
- EMC Compliance MIL-STD 461
- Transient Voltage Suppression
- Voltage Ride Through
- EMP Protection
- Designs to Meet Harsh Exposure to Environment
- Customer Private Label

