

# Power Function Manager

**Now  
500 Amps!**



The Power Function Manager is a system integrating component which converts ordinary power supplies (or Power Modules) into a fully integrated and multi-functional power system. The unit provides control, monitoring, paralleling and circuit breaker distribution of 12, 24 or 48 VDC, positive, negative or floating ground power sources.

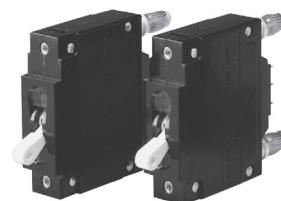
A 500 amp, heavy duty parallel tie point bus accommodates input from multiple/redundant rectifiers. A digital meter displays system bus voltage, battery voltage, total rectifier amperage, connect/disconnect voltage set points, and system ambient temperature. Features also include status lights, load distribution circuits, low voltage battery disconnect with alarm contacts. All these functions are combined in a compact, rackmount housing which serves as a master DC power management and distribution center. A rackmount ground/return bus is provided.

The PFM may be used for integration, control, monitoring and protection of numerous different types of power sources, such as AC-DC rectifiers, regulated power supplies, DC-DC converters and battery banks.

## Features/Benefits

- Provides parallel tie point for DC power modules; simplifies wiring
- 12, 24 or 48 VDC input/output; can be used with virtually any DC system
- Use with positive, negative or floating ground; no need to stock multiple units to meet different site requirements
- Digital meter displays:
  - system bus voltage
  - battery voltage
  - total rectifier amperage
  - connect/disconnect voltage set points
  - system ambient temperature
- Up to five isolated distribution circuit breaker capacity with "BREAKER TRIP" alarm contacts; easy front panel plug-in installation. Breakers sold separately
- Alarm LED (summary) indicates impending LVD disconnection, Power Module output fail or load circuit breaker trip
- Summary alarm contacts (form C) allow remote monitoring of system status in the event of extended AC power loss
- Manual battery disconnect switch allows service/replacement of batteries without system shutdown
- High current output bus for wiring main system load or for feeding an external distribution panel
- Ground bus provided
- Low voltage battery disconnect protects batteries in the event of extended AC power loss

Model	Nominal Input/Output VDC	Circuit Breaker Capacity
PFM-500	12, 24, or 48 pos. or neg. ground	5 (PBA Series)



**Plug-In Circuit Breakers**



*Powering the Network*

# Power Function Manager

## Specifications

### Electrical

**Input/Output** 12, 24 or 48V d.c. nominal; Positive or Negative Ground

**Voltage Range:** 8 to 65 VDC

**Grounding:** Positive or Negative (Polarity insensitivity)

**Maximum Total Current Capacity:** 500 amps (six power modules maximum)

### Protection:

Up to five branch circuit breakers (optional)

Low Voltage Battery Disconnect (See LVBD Specifications)

### Indicators/Alarms:

"ALARM" (summary) L.E.D. indicator (Red)

Digital volt/amp meter

Form C summary alarm contacts; provide for monitoring of up to six inputs from equipment with either Form C or Normally Open contacts. Typical indications include Power Module failure, LVBD activation, breaker mid-trip condition. A separate set of Form C contacts are provided for pre-LVD activation

**Operating Temperature Rating:** 0° C to +60° C

### LVD Specifications:

Factory set actuation voltages:

	12 Volt	24 Volt	48 Volt
Connect	10.4V DC	21.0V DC	42.0V DC
Disconnect	12.0V DC	24.5V DC	49.0V DC

### Factory Default LVD Pre-Disconnect Warning Alarm Threshold (Adjustable):

System Voltage	12V	24V	48V
LVD Pre- Disconnect	11.2V	26.2V	45.5V

### Mechanical

**Rackmount:** 19" or 23"

**Case Size:** H x W x D; 3.5" x 19" or 23" x 20.5"

**Weight:** 20 Lbs./9.1 Kg.

### Rear Panel View

