

## PFM Power Function Managers

**Power Function Manager (PFM-400)** is a system integrating component which converts ordinary rectifiers, power supplies or Telecom Rectifier Modules into a fully integrated and multifunctional power system. It provides control, monitoring, paralleling and circuit distribution and protection of 48 VDC, 24 VDC or 12 VDC power sources, in positive ground or negative ground applications.

The **Power Function Manager** provides a heavy duty 400 Amp parallel input tie point, digital DC output voltage and amperage metering, system and battery status lights, up to five individual load distribution circuits, low voltage battery disconnect (ideal for telecom systems with battery back-up) and summary alarm contacts, all combined in a compact, rackmount housing which serves as a master DC power management and distribution center. A 400 Amp rackmount ground bus bar is also provided standard.



### Product Features

- Provides a parallel tie point for rectifier modules or power supplies; simplifies wiring
- 48 VDC, 24 VDC or 12 VDC input/output; can be used with virtually any DC power source
- Use with positive, negative or floating ground; no need to stock multiple units to meet different site requirements
- Digital meter displays system voltage or current via selector switch, providing easy on-site monitoring of battery back-up and rectifier module output
- Status lights indicate system abnormal and battery connect/disconnect status as an aid to servicing technicians
- Summary alarm contacts (form C) allow remote indication of power system status
- Low voltage battery disconnect protects back-up batteries in the event of extended AC power loss
- Manual battery disconnect switch allows service/replacement of back-up batteries without system shutdown
- High current output bus for wiring main system load or for feeding an external distribution panel
- Separate 400 amp rackmount ground bus provided
- Up to five optional isolated distribution circuit breakers with tripped breaker auxiliary contacts; easy front panel plug-in installation (for circuits requiring individual control/protection)

## Product Specifications

### Performance

<b>Input / Output</b>	12, 24 or 48 VDC nominal
<b>Maximum Total Current Capacity</b>	400 Amps (mx 6 power supply/modules)
<b>Digital Meter Accuracy</b>	1% ±1 digit
<b>Circuit Breaker Voltage Rating</b>	65 VDC (see Options for available Amperages)

### Protection

- Five branch circuit breakers (optional)
- Low voltage battery disconnect (See LVBC Specifications)

### Temperature Rating

- -40°C to +60°C

### Indicators / Alarms

- Battery Online L.E.D. indicator
- "Check System" L.E.D. indicator
- LVBD "Open" L.E.D. indicator
- Digital Volt/Amp meter (selectable)
- Form 'C' summary alarm contacts: power module failure, LVBD activation, open breaker

### Low Voltage Battery Disconnect Specifications

<b>Factory set actuation voltages</b>	<b>48 VDC</b>	<b>24 VDC</b>	<b>12 VDC</b>
<b>Connect</b>	50.0	24.8	12.4
<b>Disconnect</b>	40.0	20.0	10.4

### Mechanical

- Heavy-duty plated copper bus bar
- Anodized aluminum front/side panels
- 19" or 23", flush or 6" forward rackmount
- Case size: 3.5 x 17 x 20.5"

### Options

- Plug-in circuit breakers with auxiliary contacts that activate tripped breaker alarm contacts. Available Amperages: 5, 10, 15, 20, 30, 40, 50, 75, 100 (specify model PBA-5, PBA-10, etc)
- Quick connect DC wiring harness for use with 1 kW power modules; QCK-3, QCK-6
- Rear rack covers; contact factory for available sizes