

RPS Power Systems

RPS Rack Power Systems feature PM Series rectifiers and PFM Controller.

Our engineering team offers comprehensive system integration services, including consultation, configuration, manufacturing, assembly, test, and delivery of fully integrated and functional power plants. We provide rapid delivery of complete systems, precisely tailored to meet your site requirements. See opposite page for basic menu of components offered in configuring your system.

Project Consultation

The process begins with a comprehensive analysis of your project's power requirements, offering comprehensive solutions based on all relevant factors, including:

- Load requirements and tolerances
- Site AC power considerations
- Hot swap and hot standby configuration
- Co-location compatibility
- Fault tolerance/redundancy
- Back-up battery run time calculations
- Power distribution requirements
- Remote monitoring and alarming

Engineering and Configuration

A comprehensive project proposal with a detailed diagram of the proposed custom power system is submitted to you for approval.

Rack Assembly

All necessary components are installed and wired in racks or cabinets according to the particular site requirements. These components are typically manufactured and stocked by NEWMAR, thus assuring high reliability and short lead times for system delivery.

Testing

Each rack component undergoes rigorous "burn-in" testing individually, then the assembled rack system is again fully tested under simulated site load and function conditions to ensure maximum reliability.



Documentation

Custom user manuals are provided with each system, consisting of detailed operation and troubleshooting instructions for each system component, complete schematic diagrams.

Shipment

Each rack system is rigidly secured to a custom-built shipping skid and air ride trucked directly to your installation site.

Aftersale Support

A duplicate system file, including detailed photo of the assembled system power plant, is maintained at the factory in order to provide ongoing technical support of the system, as needed.

Contact Jeff Wright at jeffw@newmarpower.com to discuss your requirements.

RPS Power System Components

Select from the following components to configure your system.

		Power Modules					
		12 Volt			24 Volt		
	Quantity Installed	Total Amps	N+1 Amps		Quantity Installed	Total Amps	N+1 Amps
	PM-12-40				PM-24-20		
	2	40	40		2	22	20
	3	72	40		3	36	20
	4	108	40		4	54	20
	5	180	40		5	72	20
	6	216	40		6	90	20
	PM-12-80				PM-24-35		
	2	80	80		2	35	35
	3	144	80		3	63	35
	4	288	80		4	94.5	35
	5	360	80		5	126	35
	6	432	80		6	157.5	35

48 Volt			
	PM-48-20		
	2	20	20
	3	36	20
	4	54	20
	5	72	20
	6	90	20
	PM-24-50		
	2	50	50
	3	90	50
	4	135	50



Power Module
See page 24 for specifications

Power Function Manager - PFM-400

Provided Functions:

- Low Voltage Disconnect
- Metering
- Rectifiers and Battery Tie Points
- Distribution circuit breakers



See page 26 for specifications

Options

Additional Distribution Panel:

- DST-10A
- DST-20A
- DST-FB

Batteries & Accessories

- Front Terminals Batteries - page 49
- Battery Disconnect Panels - page 83
- Battery Trays - page 84

Remote Monitoring

- Site Power Monitor
- Site Monitor and Control



Power Distribution
See page 58, 60 for specifications



Remote Monitoring
See page 65 for specifications



Powering the Network