



Description

PPS 7 modular DC power shelf systems provide large power system features in cost-effective, rack-mounted form factors. These shelf-power solutions provide rectification, system management, and power distribution while maintaining high reliability and offering flexibility for future expansion. The PPS 7 systems are based on hot-swappable rectifier modules output power available at 560 or 670 watts per module.

System management is accomplished through messages and alarms displayed on the system controller's (PCU) LCD screen and can also be displayed remotely via the PC-based PowCom™ software package.

Features

- High reliability
- Simple installation and operation
- LCD display for self-guided controller operation
- RS232 interface for remote operation
- Intelligent battery management:
 - Temperature compensation (requires optional cables)
 - Programmable battery load testing with data logging
 - Symmetry (requires optional cables)
 - Programmable low voltage disconnect
- Optional Ethernet (SNMP compatible) interface module
- Natural convection cooling - no fans
- International standards compliance

System Configurations



PPS 7-2100 System

An all-in-one 3U high shelf system that can be installed in both 19" and ETSI telecom cabinet solutions. The system subrack can accommodate up to three rectifier modules, a supervision module (PCU), and DC distribution with a single battery breaker and six load breakers.



PPS 7-2800 System

An all-in-one 3U high shelf system that can be installed in both 19" and ETSI telecom cabinet solutions. The system subrack can accommodate up to four rectifier modules, a supervision module (PCU), and DC distribution with a single battery breaker and a single load breaker.



PPS 7-3500 System

An all-in-one 6U high shelf system that can be installed in 19" and ETSI telecom cabinet solutions. The system subrack can accommodate up to five rectifier modules, a supervision module (PCU), and DC distribution with up to two battery breakers and twenty load breakers.

System Components

Rectifier Modules

The PPS 7 system utilizes plug-in rectifier modules that are based on a soft-switching approach. Features include 3 LEDs for rectifier status indication, thermal shutdown, and input overvoltage disconnection with an automatic reset (only on PMP 7 modules).

Rectifier Features

Model	Voltage	Power (Max)	Current (Max)
PMP 7.24 SIC	24 VDC	560 W	20 A
PMP 7.48 SIC	48 VDC	672 W	12 A



Supervision Module (PCU)

Advanced system supervision is accomplished using a microprocessor-based control module that allows both local and remote system monitoring.

- Menu-guided operation
- RS232 interface for remote operation
- Battery management and testing
- Low voltage battery disconnect (LVBD)
- Temperature compensation
- Battery symmetry measurement
- Optional Ethernet interface through SNMP and/or TCP/IP
- Partial load disconnection (PLD)



Input

Model	PPS 7-2100	PPS 7-2800	PPS 7-3500
Input	230/400V 3-phase 208-240V 1-phase Site configurable	230/400V 3-phase 208-240V 1-phase Site configurable	230/400V 3-phase 208-240V 1-phase Site configurable
Inputs (max.)	Single input	Single input	Single input

Output

Rectifier Modules (max.)	3	4	5
Battery Outputs	1	1	2
Load Outputs	6	1	20
24 VDC Version	Yes	N/A	N/A
48 VDC Version	Yes	Yes	Yes

Features

Supervision	PCU	PCU	PCU
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Battery

Battery Symmetry Inputs	1	1	3
Low Voltage Battery Disconnection (LVBD)	Yes	Yes	Yes

Mechanical

Dimensions (WxHxD)	485x133x305 mm	485x133x305 mm	485x266x305 mm
Mounting	19", ETSI, or flush ETSI mount (site configurable)	19", ETSI, or flush ETSI mount (site configurable)	19", ETSI, or flush ETSI mount (site configurable)
Cable Entry	Top	Top	Top

Options

Temp. Comp. Charge	Yes
Ethernet Network Interface	Yes
Modem Interface	Yes

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