



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 450, 560 or 670W 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.



PPS 7-4200 System

An all-in-one 6U high shelf system that can be installed in 23" standard telecom cabinet solutions. The system subrack can accommodate up to six rectifier modules, a supervision module (PCU) and DC distribution with up to two battery breakers and twenty four 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 5.24 SIC 110*	24V DC	448W	16A
PMP 5.48 SIC 110*	48V DC	448W	8A
PMP 7.24 SIC	24V DC	560W	20A
PMP 7.48 SIC	48V DC	672W	12A
PMP 7.60 SIC	60V DC	635W	9A

*110V AC input



Supervision Modules

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

PCU Features

- 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)



PPS 7 Power System

Shelf System

Input

Model	PPS 7-2100	PPS 7-2800	PPS 7-3500	PPS 7-4200
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	230/400V 3-phase 208-240V 1-phase Site configurable
Inputs (max.)	Single input	Single input	Single input	Single input

Output

Rectifier Modules (max.)	3	4	5	6
Battery Outputs	1	1	2	2
Load Outputs	6	1	20	24
24V DC Version	Yes	N/A	N/A	N/A
48V DC Version	Yes	Yes	Yes	Yes
60V DC Version	Yes (on request)	Yes (on request)	Yes (on request)	Yes (on request)

Features

Supervision	PCU	PCU	PCU	PCU
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Battery

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

Mechanical

Dimensions (WxHxD)	485x133x305mm	485x133x305mm	485x133x305mm	582x266x305mm
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)	23"
Cable Entry	Top	Top	Top	Top

Options

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

Note: All specifications are subject to change without notification.