



### Features

- High reliability
- Simple installation and operation
- LCD display for self-guided controller operation
- Interfaces standards include RS232, and Form "C" dry alarm contacts with grouped alarms
- 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 cooled - no fans
- International standards compliance

### Description

PPS 10 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 10 systems are based on hot-swappable rectifier modules with constant output power available at 1300 W per module.

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



**PPS 10-3900 System**

An all-in-one 6U high shelf system that can be installed in both 19" and ETSI telecom cabinet solutions. The system subrack can accommodate up to 3 rectifier modules, a supervision module (PCU), and DC distribution with up to 2 battery breakers and 8 load breakers.



**PPS 10-7800 System**

An all-in-one 12U high shelf system that can be installed in 19" telecom cabinet solutions. The system subrack can accommodate up to 6 rectifier modules, a supervision module (PCS) and DC distribution with up to four battery breakers and 15 load breakers. Optional expansion subrack allowing max 12 modules (15.6 kW).



## System Components

### Rectifier Modules

The PPS 10 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.

#### Rectifier Features

Model	Voltage	Power (max.)	Current (max.)
PMP 13.48 SIC	48 VDC	1300 W	28 A



### 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)
- Partial load disconnect (PLD)
- Temperature compensation
- Battery symmetry measurement
- Optional Ethernet interface through SNMP and/or TCP/IP



### PCS Features

All of the features listed under PCU above, plus:

- Advanced battery management and testing
- Digital signal collection via internal RS485 bus
- Site programmable flash EPROM
- Multiple language choices
- Programmable alarms
- Programmable logic functions and operations

Monthly data logging



**Input**

Model	PPS 10-3900	PPS 10-7800
Input	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

**Output**

Rectifier Modules (max.)	3	6
Battery Outs - MCB (100 A)	2	4
Load Outs - MCB (2-63 A)	8	15

**Features**

Supervision	PCU	PCS
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**Battery**

Battery Symmetry Inputs	3	4
Low Voltage Battery Disconnection (LVBD)	Yes	Yes

**Mechanical**

Dimensions (WxHxD)	485 x 266 x 341 mm	487 x 531 x 308 mm
Mounting	19" or ETSI	19"
Cable Entry	Top	Top

**Options**

Temp. Comp. Charge	Yes	Yes
Integrated Surge Arrestors	N/A	Yes
Partial Load Disconnect	N/A	Yes
Ethernet Network Interface	Yes	Yes
Modem Interface	Yes	Yes

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