Medium DC Power Plants

BULLETIN: 0A.163/a
MARCH 2001

UP TO 6000 AMPS @ -48 VDC POWER PLANT

- INTEGRATED METER, MONITOR, AND CONTROL SYSTEM WITH GRAPHICAL USER INTERFACES(GUI)
- EXTREMELY HIGH POWER DENSITY
- 100 to 6000 AMP
- MAXIMUM 1200 AMPS OUTPUT WITH UP TO 72 LOAD CB'S PER BAY
- 600 x 600mm FOOTPRINT
- SINGLE LOAD BUS OR SPLIT LOAD BUS TO ACCOMODATE A & B DISTRIBUTION
- 24 RELAYS FOR REPORTING ALARMS AND STATUS
- 22 LEDS FOR IMMEDIATE VISUAL NOTIFICATION OF PLANT STATUS
- NEBS LEVEL 3 AND UL COMPLIANT
- LOW VOLTAGE LOAD DISCONNECT (LVLD)
- BATTERY MONITOR AND CONTROL
- SNMP COMPLIANT
- ADDITIONAL 24 DISTRIBUTION SHUNTS (SHM)

Description: The PEC 163 is a self-contained, modular plug and play, expandable, power and distribution solution. Each plant is equipped with our new 100 Amp digital rectifier modules, which have one of the highest power density ratings available in the industry. The 163 is designed to allow monitoring and control of a complete series of plants from the main controller located in the first bay within the arrangement. The system passes active status information via a CAN bus and allows users to view system status or make adjustments to any of the plants within the arrangement. Each system can be connected to a LAN, WAN, or Internet connection, allowing staff to view plant status or make adjustments remotely. The 163 Power System provides up to 6000 Amps @ -48 VDC. Each bay is capable of supplying up to 1200 Amps, utilizing 100A digital switchmode rectifiers.

TECHNICAL SPECIFICATIONS

Electrical

Input:

Voltage: 176-265 VAC single or 3 phase
or 320-530 VAC(with no external transformer)
Current: 30.5 Amps @ 208 VAC per fully loaded rectifier
14 Amps @ 480 per fully loaded rectifier
Frequency: 47-63 Hz

Output:

Voltage: Adjustable from 50-57 VDC

Current: Maximum 1200 Amps for each bay or 6000 Amps per arrangement

Communications: CAN Bus Internal. System can interface with ethernet 10 Base-T, dial in/out, HTML Server, PPP, TCP/IP, SNMP, FTP.

Response list: 24 pairs of Form C relay contacts available (48 status conditions).

Local Maintenance Port: The initial bay contains the local maintenance port. This port allows locally monitoring and controlling a series of plants through one entry point.

Mechanical

Physical size: 23" Panel Mounting

Environmental:

Operating Temperature:	0°C to 50°C
Extended Operating Range:	-40° to +65°C
Storage:	-40° to +85°C

Battery Monitor and Control: The Battery Monitor and Control is optional and allows monitoring and control of the remote battery strings for various battery conditions.

Shunt Module (SHM): The SHM is optional and allows an additional 24 distribution shunts (beyond the 12 points provided as standardf equipment).

Control Algorithims:
Algorithims are programmed into the MMC.

LED Indicators: LED Indicators are located on each plant and provide visual indications of plant status for the local user.

Relays: Relays are located within the Initial bay to provide plant status and alarm.

Distribution Panels: The Initial and Expansion Bays can be equipped with a variety of Fuse and Circuit Breaker Panels. Contact our factory for available listing.

CLICK TO EXIT

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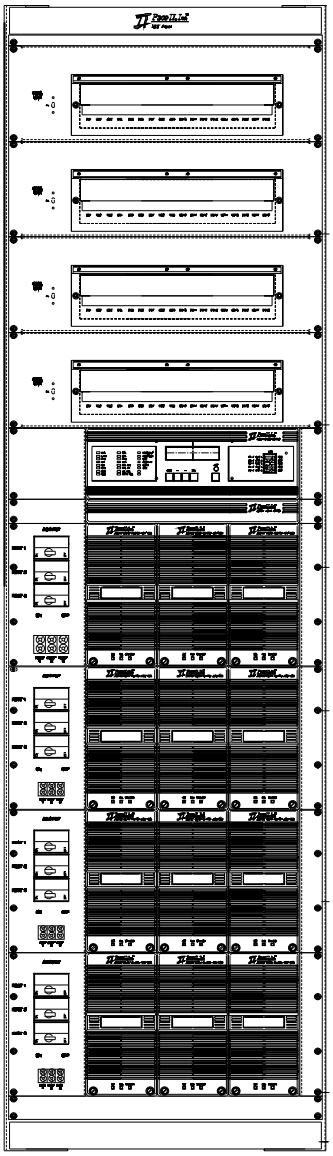
OUTLINE DRAWING



Specifications are subject to change without notice.
Please contact our website for the latest version.