



128FD Power System



- ▶ 800A of +24V in 12RU
- ▶ Configurable main and supplemental distribution
- ▶ Modular design lowers Installed First Cost
- ▶ Enhanced battery health feature
- ▶ Front access configurations available
- ▶ Installer friendly cable management
- ▶ Ethernet connectivity standard
- ▶ -48V converter option available
- ▶ Delivered fully assembled and tested to reduce installation time

■ ■ PRODUCT DESCRIPTION

The 128FD power system is designed with flexibility in mind. It has many cost saving features such as front accessibility for reduced installation and maintenance costs, the choice to add power shelves and rectifiers in the field as the load increases, and remote access to reduce visits to the site. The system offers many options. Available as 7' relay rack, 7' front access cabinet, half rack for on top of batteries, or shipping rail configurations.

- ▶ Individual / dual AC inputs
- ▶ 23" mounting
- ▶ Front access rack mount battery trays available
- ▶ Optional junction box that extends AC connections to the top of the plant
- ▶ Rectifier shelves can be added in the field from the front of the system
- ▶ 24 status LED's
- ▶ 16 alarm extension relays
- ▶ Standard battery temperature compensation
- ▶ Controlled battery recharge
- ▶ High float current alarm
- ▶ Optional ADAC module(s) allow for:
 - Battery string current variance alarm
 - Logged battery load tests
 - Branch load monitoring with alarms
- ▶ 800 Amps @ +24VDC
- ▶ Optional 80 Amps @ -48VDC
- ▶ 32 plug-in distribution positions standard
- ▶ Optional supplemental distribution
 - Four panels available
- ▶ Circuit breakers up to 600 Amps
- ▶ Fuses up to 800 Amps
- ▶ Optional LVD
- ▶ 100 Amp switchmode rectifiers
- ▶ 10 Amp @ -48VDC converters
- ▶ Rectifier test jacks
- ▶ Optional battery disconnect / EPO

■ ■ APPLICATIONS

- ▶ Wireless Power Cabinets
- ▶ Base Termination Station (BTS) Cabinets
- ▶ Base Termination Station (BTS) Huts

■ ■ SPECIFICATIONS

INPUT

Voltage Range	120/208/240VAC
Frequency	45 - 65Hz
Current	13A AC typical, 19A AC maximum per rectifier
Customer Provided Protection	25A, 2-Pole CB per rectifier

OUTPUT

Voltage Range (+24VDC)	23.5VDC - 28.5VDC
Current (+24VDC)	100A per rectifier
Efficiency	90% full load
Voltage (-48VDC)	Fixed @ -48VDC
Current (-48VDC)	10A per converter

NOISE

Voice Band	< 32dBnc (with battery)
Wide Band	< 100 mVrms (10 - 20MHz) / < 250 mV peak to peak (0 - 100MHz)
Acoustic	< 55dB

ENVIRONMENTAL

Storage Ambient	-40°F to +185°F (-40°C to 85°C)
Operating Ambient	+23°F to +122°F (-5°C to +50°C)
Humidity	< 95% non-condensing
Heat Dissipation	750 BTU/hr per rectifier module at full load 315 BTU/hr per converter module at full load

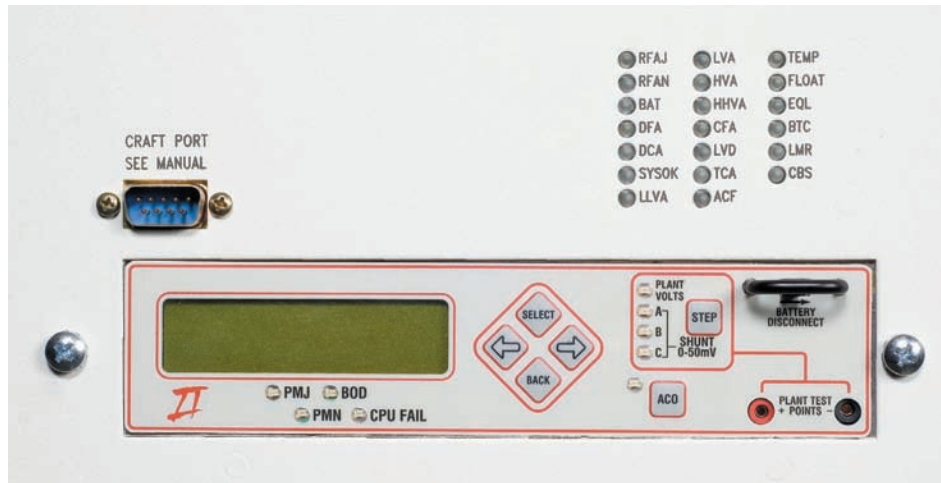
MECHANICAL

Dimensions, Fully Equipped	21"H x 22"D x 23" mounting width
Weight	375 lbs.
Cooling	Front to rear fans in rectifier and converter modules

DOCUMENTATION

Product Manual	4380428PD
J Drawing	438128FD

■ ■ POWER SYSTEM CONTROLLER FEATURES



- ▶ Front panel craft port
- ▶ 2-line x 16 character backlit LCD
- ▶ Front panel status indicators
- ▶ Redundant PMJ, PMN, BOD, CPU fail functions
- ▶ 4-button navigation
- ▶ Test jacks
- ▶ 16 alarm extension relays
- ▶ Audible alarm with cutoff
- ▶ Ethernet connectivity standard

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