

KEY FEATURES

- TSEC Approved
- High Efficiency, above 96% - reduces power consumption for lower operating costs.
- Modular Design: Simple to install and operate.
- Single Man - Machine interface. Windows for system setting
- Wide Input voltage (85-300 V ac) and Temp Range (-40°C to 80°C)
- Compliant with global standards - delivers quality, performance and reliability, no matter what the application or location demands.
- Multiple communication ports such as Ethernet port, Potential free Contacts, GPRS Modem (optional) etc for flexible networking to achieve remote monitoring

In addition to reducing power consumption and lowering operating cost PE NetSure™ 503 Series with Integrated Smart Hybrid Microprocessor controller offer superior performance and uncompromised reliability.

Description

The PE NetSure™ 503 Power System with hot pluggable R48-2000e3 Rectifiers allows for easy installation and reduce MTTR. System provides load power, Battery float current, and battery Re-charge current. R48-2000e3 rectifiers are Monitored and controlled by Smart Hybrid microprocessor based controller. The Modular Design of Rectifiers facilitates power plant sizing to application needs



For Outdoor Applications



For Indoor Applications

APPLICATIONS

- BTS Sites
- Access Network stations
- Rural Telecom Network
- Transmission Relay Station



R48-2000e3

Technical Specification

SYSTEM CONFIGURATION

System Capacity	48V@150 Amps
Controller	M530B
Rectifier	Max 6 x 2000W
IP	IP 20 for Indoor / IP 55 for Outdoor
Sensor	Temperature
Lightning Protection	Class C
Altitude	2000m, 6560 ft. at full power
Operating Temp Range	-40°C to +80°C / -40°F to +176°F
Relative Humidity	0 to 95%

AC INPUT

Nominal Voltage	187V-264V IP
Voltage Range (AC)	85V – 300V
Power Factor	>99%
Frequency Range	45Hz – 65Hz

DC OUTPUT

Nominal Output V	-48V
Output Voltage	-42V to -58V
Output Current	Max 150A DC

DISTRIBUTION

AC Input	63A / 2P X 1
RM Input Protection	16A / 1P X 6
Battery Protection	160A HRC Fuse X 3
DC Distribution	160A HRC Fuse X 1

Technical Specification

RECTIFIER

Configuration	Model
Efficient Module	R48-2000e3
Electrical Parameter	Description
Input Voltage	85V AC – 300V AC
Power Factor	≥ 0.99
Efficiency	96.2% peak
Max Input Current	12A
Nominal Out Voltage	-53.5V DC
Output Voltage	-42V DC to -58V DC

CONTROLLER	M530B
Display	128 x 160 pixels TFT LCD
Communication	RS 485, RS232, 10/100Mbps Ethernet, IPV4 & IPV6, CAN
Protocol	HTTP, SNMP, YDN23
Input Analog	3 battery currents, 4 load current, DC bus/ battery voltage, 2 temperatures
Input Digital	20 load Fuses, 4 battery Fuses, 1 SPD alarm
Outputs	2 LVD mono or bi stable contactors, 8 user relay outputs, 2 PWM output, 1 buzzer
Energy Measurement	Inbuilt 4 channel DCEM
Solar Hybrid Functionality	Compatible for 2kW & 3kW MPPT, Interfacing capability with 12MPPTs
Li-ion battery Compatibility	Li-ion battery monitoring & control combo interface

MECHANICAL PARAMETER

Dimension	System Indoor (W X D X H) in mm	586 X 490 X 667 (mm)
	System Outdoor (W X D X H) in mm	600 X 600 X 800 (mm)
	Rectifier Module (W X D X H) in mm	85.5 X 252.5 X 41 (mm)
Weight	Aprox 75 Kg including Rectifier Modules	