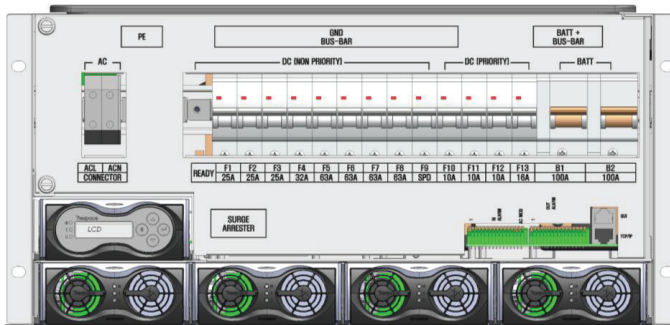


NESPACE Series Power Shelf 12 kW 250 A 48 Vdc with Distribution



NESPACE Series Rectifier Modules in power shelf system with input and output alarms, battery low voltage disconnection, DC load distribution, and a monitoring and control module.

Ideally suited for 48V telecom power plants where wide input voltage ranges and high operating temperatures are required.

FEATURES

High efficiency and power density

Max efficiency 96%

Four rectifiers up to 12 kW total output

Wide input voltage range

85-296 Vac 1Ph

High operating temperature range

Operating -40 to +75° C, full power -40 to +45° C

Advanced battery management

Temperature compensated charging

Boost, equalize and current settings

Battery capacity test

Flexible, scalable and reliable

Hot swappable rectifier modules

AC input surge suppression

Ground current sensing with surge suppression

LVLVD with surge suppression and up to nine DC MCBs

LBVD with two battery MCBs

Four DC priority MCBs

Eight input alarm ports

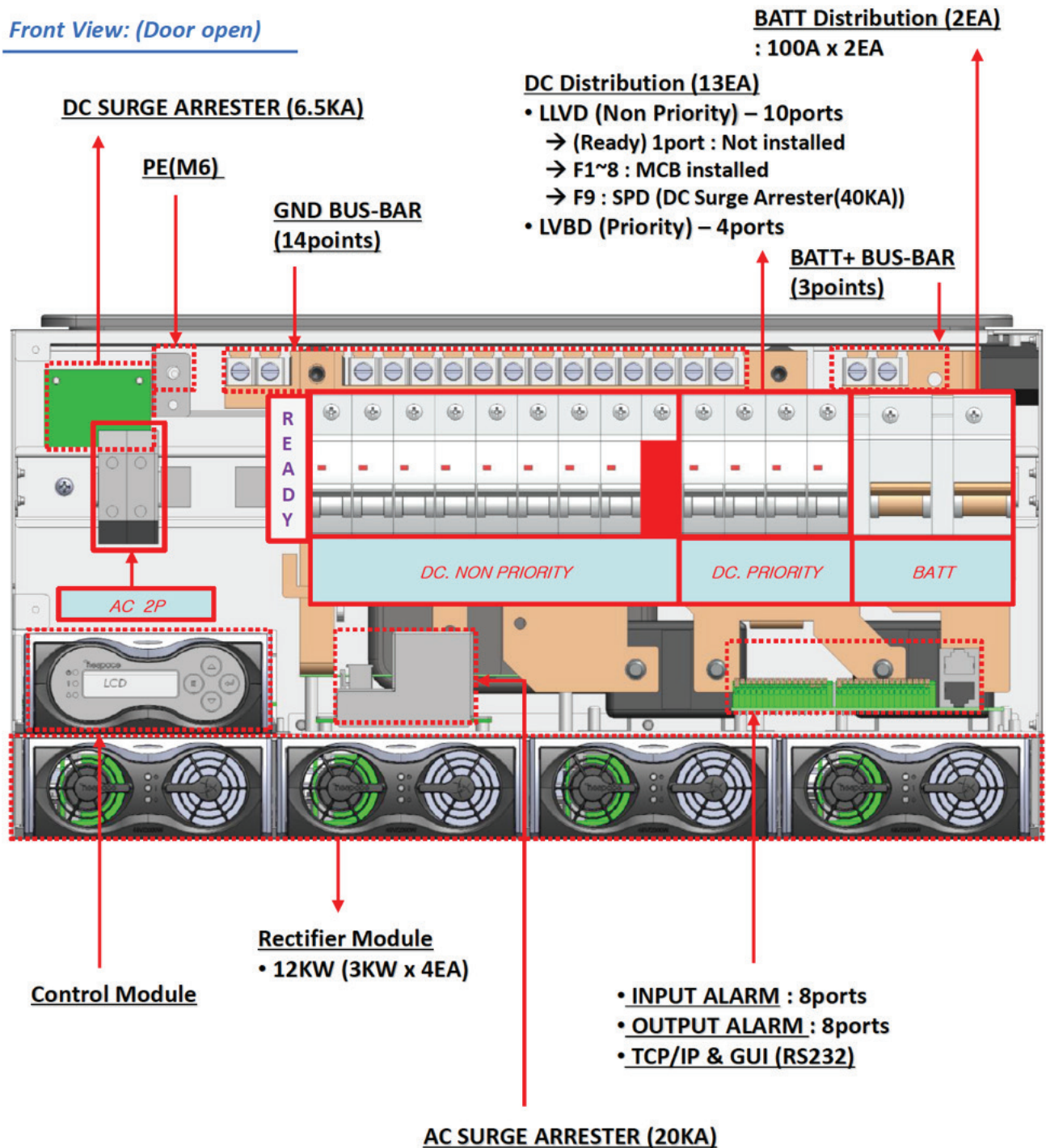
Eight output alarm ports

TCP/IP Ethernet port

RS232

NESPACE Series Power Shelf 12 kW 250 A 48 Vdc with Distribution

Front View: (Door open)



NESPACE Series Power Shelf

12 kW 250 A 48 Vdc with Distribution

SPECIFICATIONS

AC Input	12kW Power Shelf (4 x 3kW)
AC Supply	1 Phase 3 Wire
Nominal Voltage	230 Vac
Range	85-296 Vac
Frequency	47~63 Hz
Efficiency	Up to 96%

DC Output	
Nominal voltage	-54.0 Vdc
Range	42.0 - 58.0 Vdc
Output power	12,000 W at ≥ 176 Vac input 7,816 W at 120 Vac input 5,200 W at 85 Vac input
Output current	222.2 A at 54V, input ≥ 176 Vac 144.8 A at 54V, input 120 Vac 96.4 A at 54V, input 85 Vac
Line regulation	$\pm 0.5\%$ Max over entire input range
Load regulation	$\pm 1.0\%$ Max over entire load range
Ripple and noise	≤ 300 mV, p-p
Rectifier self protection	Overtoltage at 59 Vdc, thermal shutdown, battery temperature compensation

Distribution	
AC input protection	SPD 20KA
Ground protection	SPD 6.5KA
LVBD (MCB)	260A (2 x 100A)
LLVD (MCB)	200A with SPD 40KA (3 x 25A, 1 x 32A, 4 x 63A, 1 x open)
DC priority MCB	3 x 10A, 1 x 16A
Input alarm ports	8
Output alarm ports	8

General Specifications	
Modules	NESPACE 3 kW, NESPACE Monitoring Control Unit KA
Communication	RS232, TCP/IP, SNMP
Cooling	Forced air
Shelf H x W x L mm	219.8 x 482 x 403.2 (19" 5U)
Temperature	Operating -40° to +75° C, derating of 3 kW module above +45° C / Storage -40° to +80° C
Altitude	< 2000 M
Humidity	$\leq 95\%$ non-condensing
Standards: Shelf	60950-1 (pending)
Standards: Rectifier	UL, CE