

NESPACE Series Power Shelf 9 kW 187 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%

Three rectifiers up to 9 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

Two battery breaker positions

125A battery low voltage disconnect

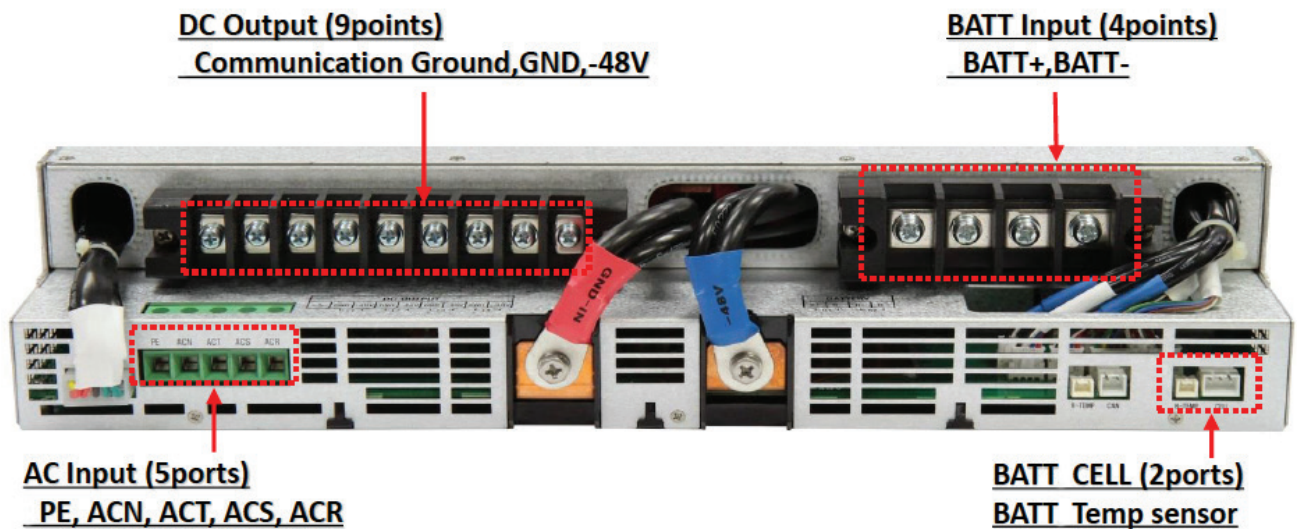
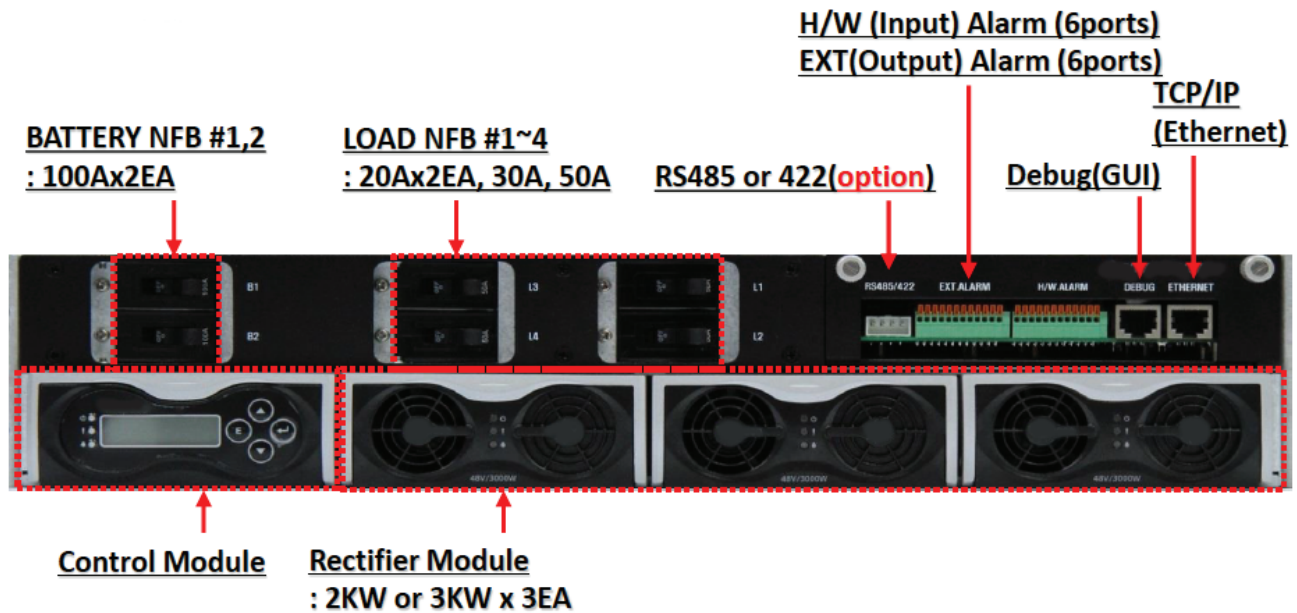
Four load distribution breaker positions

Six input alarm ports

Six output alarm ports

TCP/IP Ethernet port

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SPECIFICATIONS

AC Input	9kW Power Shelf (3 x 3kW)
AC Supply	1 Phase 3 Wire or 3 Phase 4 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	9000 W at ≥ 176 Vac input 5,862 W at 120 Vac input 3,900 W at 85 Vac input
Output current	166.5 A at 54V, input ≥ 176 Vac 108.6A at 54V, input 120 Vac 72.3 A at 54V, input 85 Vac
Line regulation	$\pm 0.5\%$ Max over entire input range
Load regulation	$\pm 0.5\%$ Max over entire load range
Ripple and noise	≤ 300 mV, p-p
Protection	Overvoltage at 59 Vdc, thermal shutdown, battery temperature compensation

Distribution	
Battery breakers	2 x 100A
BLVD	125 A
DC load breakers	2 x 20A, 30A, 50A
Input EXT alarm ports	6
Output HW alarm ports	6
DC output points	9
Battery input points	2 x NEG -, 2 x POS +

General Specifications	
Modules	NESPACE 3 kW, NESPACE Monitoring Control Unit KA
Communication	RS232 for PC, TCP/IP, GUI, SNMP
Cooling	Forced air
Shelf H x W x L mm	88.8 (19" 2U) x 448.8 x 402
Temperature	Operating -10° to +75° C, derating of 3 kW module above +45° C / Storage -40° to +85° C
Altitude	< 3000 M
Humidity	$\leq 95\%$ non-condensing
Standards: Shelf	60950-1 (pending)
Standards: Rectifier	UL, CE