

# NESPACE Series Power Shelf 4 kW 83 A 48 Vdc with Distribution



NESPACE Series Rectifier Modules in power shelf system with front DC fuse protection, rear DC load connections, dry contact alarms, 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%

Two rectifiers up to 4 kW total output

### **Wide input voltage range**

85-296 Vac 1Ph

### **High operating temperature range**

Operating -40 to +75° C, full power -40 to +55° C

### **Advanced battery management**

Temperature compensated charging

Boost, equalize and DC current settings

Battery capacity test

### **Flexible, scalable and reliable**

Hot swappable rectifier modules

Front access to 15x DC output fuses

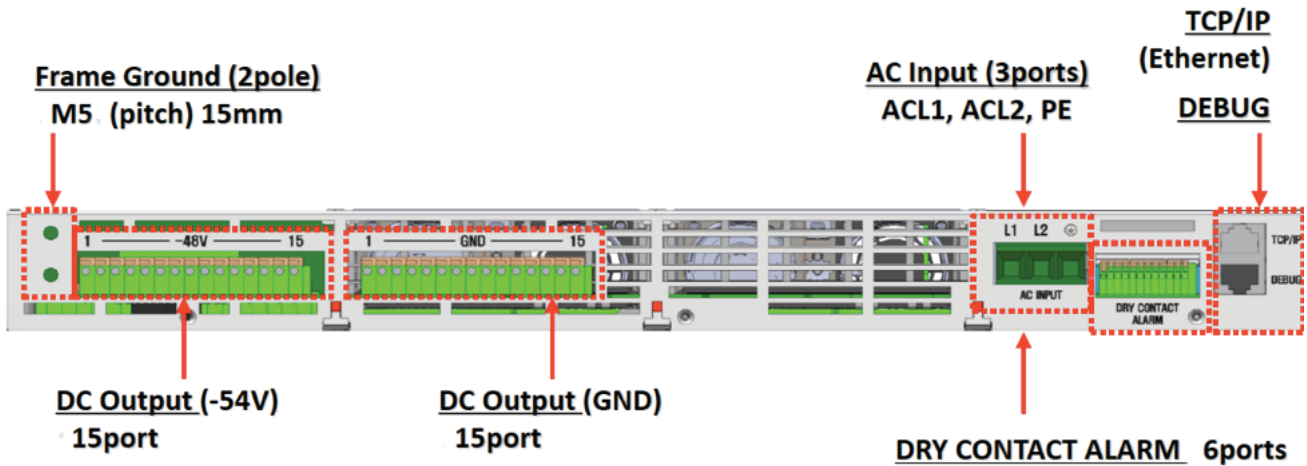
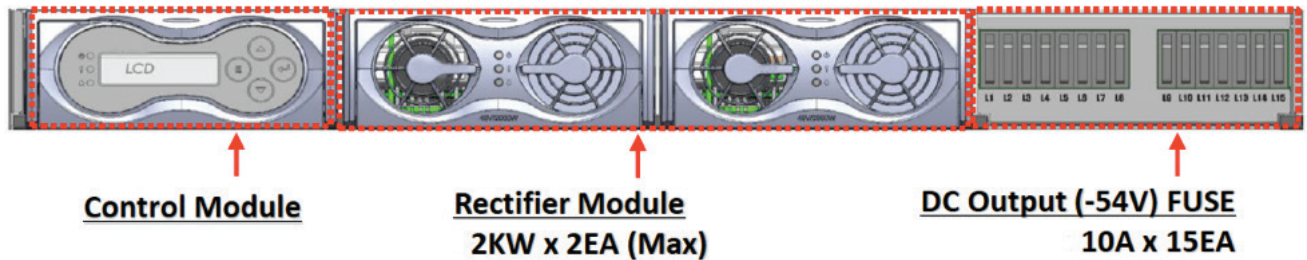
Rear access to 15x DC output ports and 15x ground ports

Rear access to 6x dry contact alarms

RS232 port

TCP/IP Ethernet port

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## 4 kW 83 A 48 Vdc with Distribution

### SPECIFICATIONS

<b>AC Input</b>	<b>4kW Power Shelf (2 x 2kW)</b>
AC Supply	1 Phase 3 Wire
Nominal Voltage	230 Vac
Range	85-296 Vac
Frequency	47~63 Hz
Efficiency	Up to 96%

<b>DC Output</b>	
Nominal voltage	-54.0 Vdc
Range	42.0 - 58.0 Vdc
Output power	4,000 W at $\geq 176$ Vac input 2,524 W at 120 Vac input 1,600 W at 85 Vac input
Output current	74 A at 54V, input $\geq 176$ Vac 46 A at 54V, input 120 Vac 29.6 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	$\leq 250$ mV, p-p
Protection	Overvoltage at 59 Vdc, thermal shutdown, battery temperature compensation

<b>Distribution</b>	
DC output	15
DC ground	15
Dry contact alarms	6

<b>General Specifications</b>	
Modules	NESPACE 2 kW, NESPACE Monitoring Control Unit KA
Communication	RS232 for PC, TCP/IP
Cooling	Forced air
Shelf H x W x L mm	44.4 (19" 1U) x 446 x 408
Temperature	Operating -10° to +75° C, derating of 2 kW module above +55° C / Storage -40° to +85° C
Altitude	< 3000 M
Humidity	$\leq 95\%$ non-condensing
Standards: Shelf	60950-1 (pending)
Standards: Rectifier	UL, CE