

# NESPACE Series Power Shelf 6 kW 125 A 48 Vdc with Bulk Distribution



NESPACE Series Rectifier Modules in power shelf system with rear DC bulk output connection, dry contact alarms, digital inputs, 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 6 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 current settings

Battery capacity test

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

Hot swappable rectifier modules

Rear access to bulk DC output and DC ground

Rear access to 6x dry contact alarm ports

Rear access to 4 digital input ports

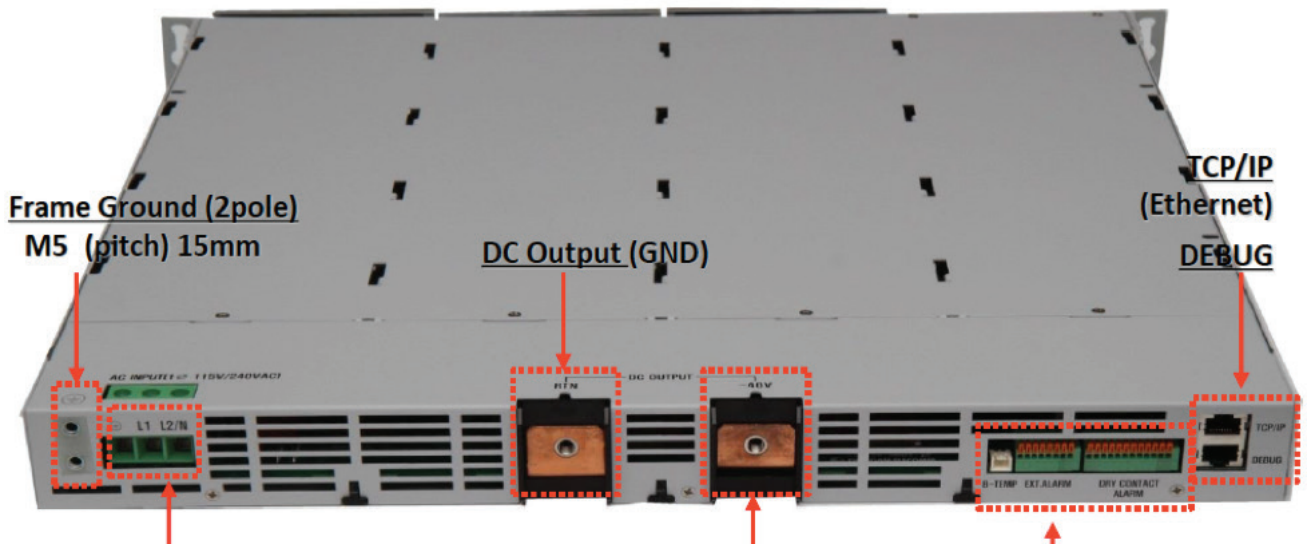
RS232 port

TCP/IP Ethernet port

# NESPACE Series Power Shelf 6 kW 125 A 48 Vdc with Bulk Distribution



**Rectifier Module**  
2KW x 3EA (Max)



**Frame Ground (2pole)**  
M5 (pitch) 15mm

**DC Output (GND)**

**TCP/IP**  
(Ethernet)

**DEBUG**

# NESPACE Series Power Shelf

## 6 kW 125 A 48 Vdc with Bulk Distribution

### SPECIFICATIONS

<b>AC Input</b>	<b>6kW Power Shelf (3 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	6000 W at $\geq 176$ Vac input 3,786 W at 120 Vac input 2,400 W at 85 Vac input
Output current	111 A at 54V, input $\geq 176$ Vac 69 A at 54V, input 120 Vac 44.4 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	1
DC ground	1
Dry contact alarms	6
Digital inputs	4
<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