

NETSURE 531 C41 WALL-MOUNTED POWER SUPPLY SYSTEM



FEATURES

- Front operation, which is convenient to install and maintain.
- System cabling : up inlet, up outlet ; lower inlet, lower outlet.
- Small size, light weight. Wall-mounted installation mode minimizes the cost.
- High efficiency rectifier efficiency up to 96%, system efficiency up to 95%.
- Wide input voltage range (85~300Vac), strong ability in adapting power grid.
- High-efficiency rectifier working temperature range: -40~+80 (-40~+55 , full load output; >55, derating output).
- Energy-saving sleep mode function, which reduces electricity consumption.
- Hot pluggable, easy and fast online maintenance.
- Perfect battery management, which prolongs battery life.
- Multiple communication ports (such as RS232 and dry contacts), which enables flexible networking and remote monitoring.

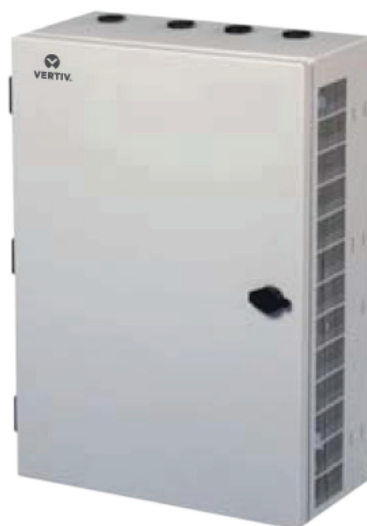
APPLICATIONS

- 3G and LTE indoor coverage power supply
- FTTx access power supply
- Transmission relay station, microwave satellite communication station
- Green and energy-saving stations

NetSure 531 C41 wall-mounted power supply system with high-frequency switching rectifier is a kind of communication power supply system of high reliability, high power density, high performance and full digitalization designed by Vertiv based on its years of experiences in development and running to meet customer needs. The system includes AC/DC distribution unit, rectifier, controller and SPD unit. It is front operated and top/bottom cabled which is easy and convenient to install and maintain.

System Configuration

Configuration	NetSure 531 C41-B1	NetSure 531 C41-B2
System Capacity		6 kW
Controller Module		M522S
Rectifier		4× R48-2000A3 or R48-2000e3
AC Power Distribution	1×63A/2P	
Battery Connection		2×100A/1P
DC Power Distribution	BLVD	2×10A/1P
	LLVD	2× 63A/1P, 2×32A/1P, 2× 20A/1P
Lightning Protection		Class C
Communication Port		Dry contact (5 way alarm output) RS232
Optional		DC lightning protection, temperature compensation cable



Rectifier

Configuration	Model
Rectifier	Normal : R48-2000A3, High-efficient: R48-2000e3
Electric Parameters	Description
Input Voltage	85Vac ~ 300Vac
Max Input Current	12A
Power Factor	≥0.99
Efficiency	Common: >94%, High-efficient: >96%
Output Voltage	-42Vdc ~ -58Vdc
Output Current	0 ~ 42A
Nominal Voltage	-48Vdc
Rated Voltage	-53.5Vdc
Working Temperatuer	-40°C ~ +80°C, -40°C ~ +65°C full load

Rectifier : M522S

Alarm Function:

Capable of triggering audible/visual alarms for system fault and reporting the alarms to host.

Up to 200 pieces of historical alarm records, and can be operated by using the keys.

Dry contact (5 way alarm output).

Alarm voice and alarm time are controllable.

Battery Management Function:

Automatic EQ/FC; Intelligent charge current limiting; Battery protection.

Battery discharge test: 10 sets of battery test data records.

charge modes: timing, fast, constant current.

Control Function:

Rectifier power on/off; Rectifier current limiting, current sharing and voltage regulating.

Battery EQ/FC/Test shifting; Battery protection.

Remote Function:

Remote communication/control/test/adjustment.

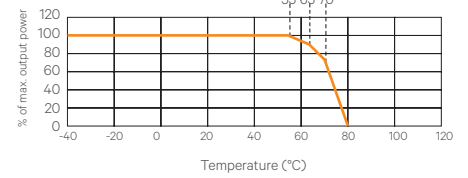
Energy-saving Function (optional)

Automatic sleep mode.

Mechanical Parameters

Mechanical Parameters	
Dimensions (mm)	400(w) × 200(D) × 600(H)
Weight (kg)	≤25 (excluding rectifiers)

Output Power vs. Temperature at $U_{in} > 176V_{ac}$



Note: 2000W @ 65°C & 200Vac < U_{in} < 250Vac & 50Vdc < U_{out} < 56Vdc



R48-2000A3/R48-2000e3