

Key Features

- The rectifier uses the active Power Factor Compensation (PFC) technology, raising the power factor to 0.99
- Tolerates a wide range of input voltage i.e. 85Vac~300Vac
- The rectifier uses soft switching technology, raising the efficiency to 96%
- The rectifier has ultra-low radiation. With advanced EMC design, the rectifier meets international standards such as the CE and NEBS
- The power supply system has perfect lightning protection at both AC side as well as DC side
- The controller has streamlined battery management function, that includes BLVD, temperature compensation, auto voltage regulation, stepless current limiting, battery capacity calculation and on-line battery test among others
- The controller provides multiple communication interface ports such as Ethernet, RS232, and 8 dry contacts, that enable flexible networking and remote monitoring.

Description

The NetSure™ 531 AC1 series power system comprises three models: NetSure™ 531 AC1-Y1, NetSure™ 531 AC1-Y6, and NetSure™ 531 AC1-W6, which are designed by Vertiv, based on years of experience and expertise in development to meet the customer needs. The system incorporates the energy efficient rectifier modules, advanced controller, Intelligent load distribution, and batteries.



NetSure™ 531 AC1-Y1



NetSure™ 531 AC1-Y6



NetSure™ 531 AC1-W6

System Configuration

Configuration	NetSure™ 531 AC1-Y1	NetSure™ 531 AC1-Y6	NetSure™ 531 AC1-W6
System Capacity	300A	150A	150A
Controller	M520S	M520S	M520S
Rectifier	R48-2000e3/R48-2000A3x12	R48-2000e3/R48-2000A3x6	R48-2000e3/R48-2000A3x6
AC Power Distribution	3L+N+PE, 63A/4Px1	3L+N+PE, 32A/4Px1	3L+N+PE, 32A/4Px1
DC Power Distribution	16 BLVD routes: MCB: 16A/1Px2+10A/1Px8 LLVD: 125A/1Px2+80A/ 1Px2+63A/1Px2	7 BLVD routes: MCB: 10A/1Px2+32A/1Px2 LLVD: 100A/1Px3	7 BLVD routes: MCB: 10A/1Px2+32A/1Px2 LLVD: 100A/1Px3
Battery MCB	4x100A/1P	4x100A/1P	4x100A/1P
Optional	Two temperature sensors, Ethernet	Two temperature sensors, Ethernet	Two temperature sensors, Ethernet

Rectifier

Configuration	Model
Rectifier	R48-2000A3, R48-2000e3

Parameters	Description
Input Voltage Range	85Vac~300Vac
Max input current	12A
Power Factor	≥0.99
Efficiency	R48-2000A3: >95%; R48-2000e3: >96%
Output Voltage Range	-42Vdc~-58Vdc
Output Current Range	0~42A
EMC (EN300386)	R48-2000A3: Class A; R48-2000e3: ClassB
Rated Voltage	-53.5Vdc
Operating Temperature	-40°C~+80°C, -40°C~+55°C full load output
Power	R48-2000A3: 1740W, R48-2000e3: 2000W

Mechanical Parameters	NetSure™ 531 AC1-Y1	NetSure™ 531 AC1-Y6	NetSure™ 531 AC1-W6
Dimensions (mm: W x D x H)	600 x 600 x 2000	600 x 600 x 2000	600 x 400 x 500
Weight (excluding rectifier, controller & batteries), kg	≤ 140	≤ 140	≤ 30