Vertiv™ NetSure™ 731 CC2

48V DC Power System

Key Features

- Supports up to 600 A load capacity
- Uses high power density rectifier modules with the APFC technology - maintains the power factor up to 0.99
- Tolerates a wide AC input voltage range: 85 ~ 305 VAC; reduces the battery usage.
- Rectifier embraces the soft-switching technology - enhances the efficiency up to 96%
- Hot-pluggable rectifiers; reduces the maintenance time and MTTR.
- Embedded with an advanced controller
- Loaded with the advanced battery management function - includes BLVD, LLVD, temperature compensation, auto voltage regulation, current limiting, battery capacity estimation, online battery test, etc.
- Stores up to 5000 history alarms records, 512 history data records, and 10 sets of battery test data records
- Integrated multiple communication ports (such as RS 485, USB, ethernet, and CAN), which enables the Remote control & monitoring function

Description

The Vertiv™ NetSure™ 731 CC2 is a standalone indoor DC power system designed to provide unmatched reliability, availability, and efficiency to protect critical edge equipment, thereby ensuring vital round-the-clock network continuity. It embodies functions such as input distribution and output critical & non-critical distribution along with surge protection devices. An integrated, sophisticated controller enables remote monitoring capabilities and ensures overall system integrity.

Application

- Micro base station
- Macro base station
- Distributed base station
- Integrated access sites

NetSure™ 731 CC2

System Configuration

Configuration		NetSure™ 731 CC2-X5	NetSure™ 731 CC2-X7	NetSure™ 731 CC2-X8
Maximum capacity		600 A		
Controller		M530S		
Rectifier module		12 nos of R48-3000e3		12 nos of R48-3000e3 or 8 nos of R48-4300e3
AC distribution	Input	2 × 100 A/3P MCB	1 × 100 A/3P MCB	2 × 100 A/3P MCB
	Output	1 × 16 A/1P MCB	1 × 25 A/1P & 1 x 25 A/3P MCB	1 × 16 A/1P MCB
Battery access		2 × 500 A, Fuses		
DC distribution	BLVD	2 x 32 A/1P, 4x 16 A/1P MCB	4 x 16 A/1P MCB	3 x 63A/1P, 4 x 32 A/1P MCB; 2 x 160 A, 1 x 100A Fuses
	LLVD	8 x 63A/1P, 2 x 32 A/1P MCB; 6 x 160 A, 6 x 100A Fuses	4 x 63A/1P, 6 x 32 A/1P MCB; 4 x 100 A Fuses	3 × 32 A/1P, 8 x 63 A/1P MCB; 3 x 250 A, 4 x 160 A, 4 × 100 A Fuses
Optional parts		Top cover, temperature sensor, base, and extractor		
Dry contacts		8 output dry contacts		
Lightning protection		Equipped with Class C lightning protection on AC side and SPD on DC side		
Dimension (mm)		600 (W) x 400 (D) x 1600 (H)		
Weight (kg)		<=110 (including rectifiers)		

System parameters	Description
Operating temperature	- 5 °C to + 40 °C (derating is necessary above 40°C)
Relative humidity	5% RH to 95% RH (no condensation)
Altitude	≤2000 m (derating is necessary above 2000 m)
Input voltage range	85 to 305 VAC (output derating below 176 Vac)
Input frequency range	45 Hz to 65 Hz
System efficiency	Peak Efficieny: 96%
Nominal output voltage	- 48 VDC
Rated output voltage	- 53.5 VDC
Output DC voltage	- 43.2 VDC to - 57.6 VDC

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