

Vertiv[™] NetSure[™] IPE Series, R48-2000C2 Ordering Guide



Benefits

- Rapidly deploy your wireless and broadband networks with outdoor rectifiers that easily mount directly to a pole or wall using quick connectors on load and AC input cables
- Power your critical infrastructure in hard to reach spaces with IP65-rated high-density modules that operate up to +75 °C
- Keep network operating costs to a minimum by using highly available DC power that operates at up to 96% efficiency and requires no energy for cooling
- Eliminate voltage drops and running heavy cables to remote radio heads (RRHs) by placing these compact rectifiers directly on top of the tower
- Quietly support your network with silent, convection-cooled DC power

Lightweight and maintenance-free, Vertiv[™] NetSure[™] IPE outdoor power systems power your network in harsh environments.

Description

The Vertiv[™] NetSure[™] IPE series high-efficiency R48-2000C2 rectifier is designed to support 5G radio applications such as small cells and remote radio heads (RRHs) and broadband applications such as DSLAMs and OLTs. Fanless cooling eliminates maintenance and results in silent operation. Ideal for rapid deployment in urban, rural, or noise sensitive public areas.

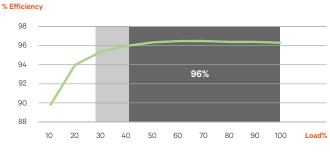
The rectifier meets IP65 rating for use in harsh outdoor environments. Flexible installation options include pole or wall mounting in flag or flat position. Quick connectors and a cable-strain relief plate minimize the time to install cables.



The 96% high-efficiency rectifier includes an integrated

controller that offers Bluetooth communication for initial system set-up. It can then be turned-off or left on for on-going monitoring and control depending on the operator's preference. All rectifiers are also equipped with alarm relay outputs.

The space-saving Vertiv NetSure IPE Series is ideal for use in network edge applications including 5G small cells, RAN, Distributed Antenna Systems (DAS) and broadband. Rapid deployment outdoors is easy since the unit is hardened and does not require a separate housing for protection against the elements.



R48-2000C2 Efficiency Curve at 230 VAC Nominal

Versatile Mounting Options



Flag Orientation (bracket 10024600*)

* included with rectifier



Flat Orientation (bracket 10024600*)



Technical Specifications

AC Input

Voltage, Nominal
Voltage Range
Single or Three-Phase
Frequency
Maximum Current
Power Factor
Total Harmonic Distortion

Single 45 to 65 Hz 12A >0.90 for 25% to 50% load, >0.98 for 50% to 100% <5% from 50% to 100% of rated output current at 220 VAC to 240 VAC

>93% at ≥ 100 VAC input, >96.3% at ≥ 230 VAC input

2x2kW and 2x1kW fuse protected outputs

-40 to 75°C / -40 to +167°F (see figure 3)*

DC Output

Voltage, Nominal
Voltage Range
Maximum Power
Maximum Current
Peak Efficiency
Load Outputs

DC Load Distribution

Fuse Type Fuse Positions Fuse Rating

Monitoring

Local Display Communication Protocols 4 2x 30A; 2x 70A 3x Status LEDs

-40 to +70°C / -40 to +158°F

85 VAC to 300 VAC

100-120 VAC and 200-240 VAC

Ethernet and Bluetooth SNMPv2

High Speed

-48 VDC

-42 to -58 VDC

2000 W (see figure 1) 41.6 A @ -48 VDC (see figure 2)

Environmental

Operating Temperature Storage Temperature Relative Humidity

Altitude

5 to 100% -61 to 3048 (m): up to 3000 m at full power / -200 to 10000 (feet): up to 9842 feet at full POWER

Physical

Body Color	Off White
Height	15.7"/400 mm
Width	11.8"/300 mm
Depth	2.4"/62 mm
Maximum Weight (Approximate)	21 lbs / 9.5 kg
Access	Bottom of rectifier
Cable Entry	Quick connectors

Standards Compliance

Safety	IEC62368-1, UL62368-1, CSA-C22.2 NO. 62368-1
EMC	EN55022, ETSI EN300 386, FCC CFR 47 Part 15 (Class B), GR-1089-CORE Issue 7:2017
Environment	IEC 60529, REACH, RoHS, WEEE
Ingress Protection	IP65
Seismic	Zone 4
Warranty	
Standard Warranty	1 Year

Figures

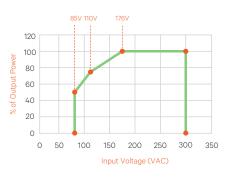


Figure 1: Output Power vs. Input Voltage and Vo > 48V at Temp < 55°C

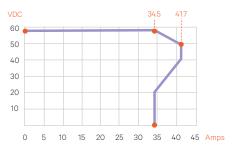


Figure 2: Output Voltage vs. Output Current at Maximum Output Power 2000 W

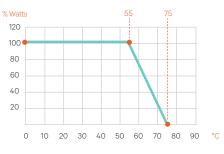


Figure 3: Output Power vs. Temperature at 290 VAC ≥ Vin ≥ 200 VAC

Ordering Information

Part Number	Description
2000 Watt Rectifier	
1R482000C2-6	Vertiv™ NetSure™ IPE, -48 VDC, 2000 W, with controller, quick connections. Standard mounting kit included with cable-strain relief plate.

2000 Watt Rectifier Kits (see matrix below for details - cables and mounting brackets can be ordered individually on following page)

Kit 1 - 10032448	1R482000C2-6 rectifier with input, communication and (1) 2kW output cables
Kit 2 - 10032449	1R482000C2-6 rectifier with input, communication and (2) 1kW output cables
Kit 3 - 10032451	1R482000C2-6 rectifier with input, communication, (2) 2kW output, (2) 1kW output cables

Category	Description	Length	Part Number	Rectifier 1R482000C2-6	Kit 1 10032448	Kit 2 10032449	Kit 3 10032451
	2kW Rectifier	-	1R482000C2-6	1	1	1	1
	AC Input	16.4 ft	10024814				
Power Cables	AC Input	32.8 ft	10023461		1	1	1
	1kW Load	30.0 ft	10023471			2	2
	2kW Load	30.0 ft	10023420		1		2
Communication Cable	Alarm/Ethernet	32.8 ft	10039061		1	1	1
Mounting Bracket	Rectifier (included w/ rectifier)	-	10024600	1	1	1	1

Cables are pre-connectorized on one end and raw ended on the other



2000 Watt Rectifier Cables

10024814	AC input power cable, IP65 quick connector/unteriminated - 16.4 ft
10023461	AC input power cable, IP65 quick connector/unteriminated - 32.8 ft
10023471	1 kW output power cable, IP65 quick connector/unteriminated - 30 ft
10023420	2 kW output power cable, IP65 quick connector/unteriminated - 30 ft
0039061	Alarm/Ethernet communication cable, DB-15 connector/unteriminated - 32.8 ft

Cables are pre-connectorized on one end and raw ended on the other

Spare/Replacement Parts

10026784	Fuse, 160 VDC, 30 A - for 1kW outputs
10026786	Fuse, 300 VAC, 70 A - for 2kW outputs



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