

# OPUS C 48-8.0 R

OPUS C series DC Power System in 19" rack



## General description

OPUS C 48-8.0 R delivers uninterrupted DC power to demanding industrial, automation, telecom and datacom applications. Maximum output power is 8 kW at 48 VDC.

OPUS C 48-8.0 R is a compactly integrated DC power system using MRC 48-1600 convection cooled rectifiers and a comprehensive VIDDI controller. Connections are preinstalled for mains, batteries and DC distribution. The system can be equipped with a wide range of options.

OPUS C 48-8.0 R fits into a standard 19" frame.

## Features

- Fully integrated 48 VDC power system
- Convection cooled with low noise and highly reliable MRC 48-1600 rectifiers
- Maximum output 8 kW
- All-inclusive distribution with load fuse monitoring
- Options: temperature compensated charging, load LVD, battery LVD, comprehensive battery management, relay inputs and outputs, remote control and earth fault detection
- 19" rack-mounted
- Available as positive grounded, negative grounded or floating
- H 533 mm, W 438 mm, D 370 mm
- Also available in 24 VDC, 60 VDC, 110 VDC and 220 VDC versions

## Technical specifications

General construction	
Cooling	Natural convection
Protection	IP 20
Controller user interface	Display and local control in front panel
Distribution and Connections	Behind front panel
Rectifiers	Max. 5 pcs
Material	1-1.5 mm zinc plated steel frame
Color	Front plate and rectifiers RAL 7012
Assembly	Standard 19" frame

Input	
AC-connection	3W+N+PE
Nominal voltage	230/400 VAC
Range, full power	180-275 VAC
Range, reduced power	140-180 VAC
Overvoltage shut-down	290 VAC
Frequency	45 to 65 Hz
Nominal current / phase	15.4 A
Maximum current / phase	< 20 A
Inrush current	24 A / rectifier
Rectifier input protection	16 A MCB / rectifier module
Mains terminal	Terminal blocks 10 mm <sup>2</sup>
Recommended external mains fuse	3x25 A

Output	
Nominal voltage	48 VDC
Voltage range	42-58 VDC
Overvoltage shut-down	60 VDC
Ripple noise	<100 mV <sub>p-p</sub>
Nominal current	164 A@48 V
Output current	147 A@54.5 V
Nominal power max.	8000 W
Redundant power	6400 W
Output terminals	max. 25 mm <sup>2</sup>

Battery connection	
MCB	1 x 200 A

Controller	
VIDI	Basic controller
VIDI+	Advanced controller
Features	See VIDI datasheet

Load distribution options (monitored)	
MCB	20 pcs/1-pole, 10 pcs/1-pole
Rating of load fuses	2..63 A

Other options	
Battery LVD *	200 A
Load LVD *	200 A
Temperature sensor	Enables temperature compensated charging
Additional battery MCB *	1 x 200 A
Earth fault detection	In floating systems

Dimensions	
Height	12U, 533 mm
Width	19", 438 mm
Depth	370 mm
Weight without rectifiers	20 kg

Environment and standards	
Operating temperature	-5°C – +45°C
Humidity max.	95% relative humidity, non-condensed
Altitude max.	2000 m above sea level
Safety	IEC/EN 60950-1
EMC	Emissions: EN/ IEC 61000-6-4 Immunity: EN/ IEC 61000-6-2 Harmonic currents: EN/ IEC 61000-3-2 Voltage fluctuations& flicker: EN/ IEC 61000-3-3

\* Check availability