

OPUS C 110-8.0 R

OPUS C series DC Power System in 19" rack



General description

OPUS C 110-8.0 R delivers uninterrupted DC power to demanding industrial, automation, telecom and datacom applications. Maximum output power is 8 kW at 110 VDC.

OPUS C 110-8.0 R is a compactly integrated DC power system using MRC 110-1600 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 110-8.0 R fits into a standard 19" frame.

Features

- Fully integrated 110 VDC power system
- Convection cooled with low noise and highly reliable MRC 110-1600 rectifiers
- Maximum output 8 kW
- All-inclusive floating 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
- H 533 mm, W 438 mm, D 370 mm
- Also available in 24 VDC, 48 VDC, 60 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	18 A / rectifier
Rectifier input protection	18 A MCB / rectifier module
Mains terminal	Terminal blocks 10 mm ²
Recommended external mains fuse	3x25 A

Output	
Nominal voltage	110 VDC
Voltage range	97-132 VDC
Overvoltage shut-down	135 VDC
Ripple noise	<100 mV _{p-p}
Nominal current	72 A@110 V
Output current	65 A@123.6 V
Nominal power max.	8000 W
Redundant power	6400 W
Output terminals	max. 25 mm ²

Battery connection	
MCB	1 x 100 A

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

Load distribution (monitored)	
MCB	max 10 pcs/2-pole
Rating of load fuses	2...63 A

Other options	
Battery LVD or load LVD	200 A
Temperature sensor	Enables temperature compensated charging
Earth fault detection	

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

Environment and standards	
Operating temperature	-5°C - +40°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