

# OPUS C 7U RACKS

## OPUS C DC POWER SYSTEMS IN 19" 7U RACKS

OPUS C 24-3.3 R7U, OPUS C 48-4.8 R7U, OPUS C 60-4.8 R7U, OPUS C 110-4.8 R7U, OPUS C 220-4.8 R7U



### PRODUCT DESCRIPTION

OPUS C DC power systems are robust, free convection cooled, N+1 redundant backup power solutions for critical infrastructure applications such as transmission and distribution substations, process industries and telecommunications.

OPUS C DC power systems consist of MRC-rectifiers, VID1+ controllers, Connections for mains and battery and wide variety of load distribution.

2014\_10\_13\_OPUS C 7U racks vC.0 draft.pdf

- FEATURES**
- Convection cooling
  - Models for 24, 48, 60, 110, 220 VDC
  - Max 4.8 kW output power
  - N+1 redundancy
  - Battery connection: 1 string with full current, MCB protection
  - Options: Battery LVD, Temperature sensor, Wall mounting+ IP21 kit

**TECHNICAL SPECIFICATIONS**

GENERAL CONSTRUCTION	
Cooling	Natural convection
Protection	IP 20 Option IP21
Controller user interface	Display and local control in front panel
Distribution and Connections	Behind front panel
Colour	Frame RAL 7012
Dimensions, rack mounting	Height 311 mm Width 438 mm Depth 451 mm
Dimensions, Wall mounting + IP21	Height 350 mm Width 482 mm Depth 503 mm



TECHNICAL SPECIFICATIONS

ENVIRONMENT AND STANDARDS					
Operating temperature	-5°C ... +45°C				
Humidity max	95% relative humidity, non-condensing				
Altitude max	2000 m above sea level				
Safety	IEC/EN 60950-1				
EMC	Emissions: IEC/EN 61000-6-4 Immunity: IEC/EN 61000-6-2 Harmonic currents IEC/EN 61000-3-2 Voltage fluctuation&flicker: IEC/EN 61000-3-3				
INPUT	OPUS C 24-	OPUS C 48-	OPUS C 110-	MRC110-1600	OPUS C 220-
AC-connection	3W + N + PE				
Nominal voltage	230 / 400 VAC				
Range, full	180 - 275 VAC				
Range, reduced	140 - 180 VAC				
Frequency	45 to 65 Hz				
Mains terminal	Terminal blocks 10 mm2				
	OPUS C 24-5.5	OPUS C 48-8.0	OPUS C 60-8.0	OPUS C 110-8.0	OPUS C 220-8.0
Nominal current	5.3 A	7.7 A			
Maximum current	6.9 A	9.7 A			
Inrush current per rectifier	< 20 A				
OUTPUT	OPUS C 24-5.5	OPUS C 48-8.0	OPUS C 60-8.0	OPUS C 110-8.0	OPUS C 220-8.0
Grounding	floating	floating	floating	floating	floating
Nominal voltage	24 VDC	48 VDC	60 VDC	110 VDC	220 VDC
Voltage range	21 -31 VDC	42 - 58 VDC	51 - 72 VDC	97 - 132 VDC	189 - 265 VDC
Ripple noise	< 100 mVp-p	< 100 mVp-p	< 100 mVp-p	< 100 mVp-p	< 100 mVp-p
Rectifiers	Max 3	Max 3	Max 3	Max 3	Max 3
Maximum current	229A @ 24V	164A @ 48V	134A @ 60V	72A @ 110V	36A @ 220V
Power max.	5.5 kW	8.0 kW	8.0 kW	8.0 kW	8.0 kW
Redundant power	4.4 kW	6.4 kW	6.4 kW	6.4 kW	6.4 kW
Output terminals	max 25 mm2				



TECHNICAL SPECIFICATIONS	CONNECTIONS	
	Mains	Mains switch, 16A MCB and connection terminals
	Battery	2-pole MCB
	OPTIONS	
	Wall mounting kit including IP21 drip water cover	
	NTC Temperature sensor	
	Battery LVD contactors	
Controllers: VID1+ or VID1+ I/O		

ORDER INFORMATION	NAME	ORDER NUMBER
	OPUS C 24 3.3 R 7U F	9220X0005001
	OPUS C 48 4.8 R 7U F	9220X0005007
	OPUS C 60 4.8 R 7U F	9220X0005009
	OPUS C 110 4.8 R 7U F	9220X0004953
	OPUS C 220 4.8 R 7U F	9220X0005011