



# OPUS WRS WALL MOUNTED CHARGING RECTIFIER SYSTEM

OPUS WRS 24-1100 F, OPUS WRS 48-1600 F, OPUS WRS 60-1600 F ,  
OPUS WRS 110-1600 F , OPUS WRS 220-1600 F



## PRODUCT DESCRIPTION

OPUS WRS is wall mounted charging rectifier for industrial market applications. Together with batteries it provides uninterrupted DC power for critical loads. With compact design, comprehensive monitoring features and alarm functions OPUS WRS provides a cost-effective solution to wide range of applications where high reliability and availability are requested.

OPUS WRS product line consists of MRC-rectifier, VID1+ I/O controller, MCB protections for mains, load and battery packaged in wall mounted IP21 enclosure.

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<b>FEATURES</b>	• Compact design and low weight
	• Convection cooling with low noise
	• Easy installation
	• Models for 24, 48, 60, 110, 220 VDC
	• Max 1600 W output power
	• Battery connection: 1 string with full current, MCB protection and shunt resistor

<b>TECHNICAL SPECIFICATIONS</b>	GENERAL CONSTRUCTION	
	Cooling	Natural convection
	Protection	IP 21
	Controller user interface	Display and local control in front door
	Distribution and Connections	Behind front panel
	Colour	Frame RAL 7012
	Dimensions	Height 311 mm Width 438 mm Depth 451 mm
	ENVIRONMENT AND STANDARDS	
	Operating temperature	-20°C ... +45°C
	Humidity max	95% relative humidity, non-condensing
Altitude max	2000 m above sea level	
Safety	IEC/EN 60950-1	



		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 WRS 24-	OPUS WRS 48-	OPUS WRS 60-	OPUS WRS 110- OPUS WRS 220-
AC-connection	L + N + PE				
Nominal voltage	230 VAC				
Range, full	180 – 275 VAC				
Range, reduced	140 – 180 VAC				
Frequency	45 to 65 Hz				
Internal protection	16 A MCB / rectifier module				
Mains terminal	Terminal blocks 2.5 mm <sup>2</sup>				
		OPUS WRS 24-	OPUS WRS 48-	OPUS WRS 60-	OPUS WRS 110- OPUS WRS 220-
Nominal current	5.3 A	7.7 A			
Maximum current	6.9 A	9.7 A			
Inrush current per rectifier	< 20 A				
OUTPUT		OPUS WRS 24-	OPUS WRS 48-	OPUS WRS 60-	OPUS WRS 110- OPUS WRS 220-
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
Maximum current	45.8A @ 24V	33.3A @ 48V	26.6A @ 60V	72A @ 110V	36A @ 220V
Power max.	1.1 kW	1.6 kW	1.6 kW	1.6 kW	1.6 kW
CONNECTIONS					
Battery	2-pole MCB				
Load	2-pole MCB				
ORDER INFORMATION		NAME	ORDER NUMBER		
		OPUS WRS 24-1100 F	95H660		
		OPUS WRS 48-1600 F	95H670		
		OPUS WRS 60-1600 F	95H680		
		OPUS WRS 110-1600 F	95H690		
		OPUS WRS 220-1600 F	95H700		