

PowerRack

Scalable rectifier for industrial applications



Option: indicator light

PowerRack is a complete modular rectifier concept designed as a ready to go system to generate highest DC quality, available in air or water cooling.

- Digital control panel with LCD display providing updated status information
- Supports manual as well as remote control operation via plant automation system
- Change over from manual to automatic mode via the control panel
- Manual mode with ramp generator, Ah-meter and timer
- Splash-proof operator front (NEMA 12)
- E-coated cabinet featured with a front door, removable side panels and plinth
- Modular upgrade to the maximum output power of 100 kW

PowerRack

Scalable, industrial approved,
compact design

Version	output power	max. output current
1.00	40 kW	3000 A
2.00	60 kW	4500 A
3.00	80 kW	6000 A
4.00	100 kW	7500 A

Basic functions:

- Central mains connection
- Electronic protection of each 19"- power module
- Direct access to 19"- power modules by opening the front door
- Main contactor to switch the rectifier on and off instead of a simple standby function
- Integrated EMC line filter to reduce line harmonics
- Control panel displaying current and voltage
- Fully electronic current and voltage control
- Automatic DC over current limitation
- Automatic load sharing between the power modules

Technical Data (for example):

Mains voltage:	3 x 480 V / 60 Hz
Input current:	132 A
Mains power:	110 kVA
Power factor:	> 0,95
DC output voltage:	12 V
DC output current:	7500 A
Operating modes:	manual and automatic mode (0-10 V)
Control:	constant current and voltage control
Control range:	0 - 100 % voltage and current
Control accuracy:	< 1 %
Ripple:	< 3 % constant
Ambient temperature:	up to 95 °F
Site altitude:	up to 3,300 ft above sea level
Dimensions:	79" H x 24" W x 32" D (air) 79" H x 32" W x 32" D (water) (+ 4" each plinth)
Protection Class:	NEMA 2 (air) / NEMA 12 (water)
Surface finish:	light grey

(Subject to modifications)



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