

PowerRack

Scalable Rectifier for
Industrial Applications



Smart Rectifier Technology

PowerRack is a modular rectifier concept for industrial applications designed as a ready-to-go concept for generating a high DC quality. It is available in air- or water-cooled design. The smart rectifier technology offers additional reliability features such as load sharing and a redundancy option.

- Digital control panel with LCD display providing updated status information
- Manual operation or automatic operation via the plant control system
- Easy change-over from manual to automatic mode at the control panel
- Manual mode with ramp generator, two ampere-hour meters and two timers
- Splash-proof operator front (IP 54 / NEMA 12)
- High-quality powder-coated cabinet with removable side panels, a front door and a plinth
- Modular expansion possible up to a maximum output power of 100 kW
- Load sharing

PowerRack

Scalable, Industry-Approved, Compact

Version	Output Power	Output Current
1.00	40 kW	3,000 A
2.00	60 kW	4,500 A
3.00	80 kW	6,000 A
4.00	100 kW	7,500 A

Product Advantages

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

Technical Data

Mains voltage	3 x 400 V / 50 Hz + N + PE
Power factor	> 0.95
Output current	100 A to 7,500 A
Output voltage	6 V to 150 V
Ripple	< 3 %
Duty factor	100 % (24/7)
Efficiency	80 % to 93 %
Operating modes	manual and automatic mode (0-10 V)
Ambient temperature	+ 35 °C
Water inlet temperature	+ 16 °C to + 30 °C
Protection grade	IP 23 (air), IP 54 (water)
Finish	Light grey
Dimensions	W/D/H = 600/800/2000 mm (air) W/D/H = 800/800/2000 mm (water) (plus 100 mm for the plinth)

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