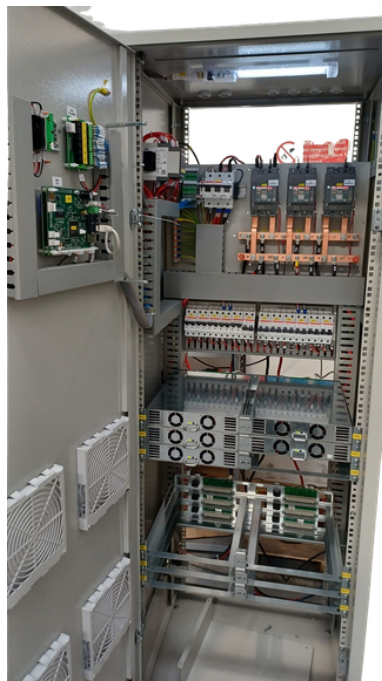


Modular Rectifier 48Vdc (30A - 280A)



Main Cabinet System

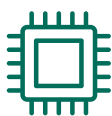


Inside view



Power Module
Hot Swappable

Key Features & Benefits



Modular & Scalable

- seamless maintenance, expansion, and upgrade
- modular, redundant architecture (N+1) configuration
- Active load sharing for stability



Advanced Monitoring

- microprocessor-controlled power system
- CAN bus & Ethernet
- Web browser configuration
- Email/SMS notification



Reliability & Protection

- independent MCBs and internal input fuses
- selective DC output protection
- Automatic restart after ensured service continuity

Modular Rectifier / Battery Charger

Environment	Relative Humidity	0% , 90% (95% non-condensing)		
	Temperature	-10°C , +55°C (storage up to +70°C)		
	Altitude	3000m above sea level		
	Protection Degree	IP41		
Input	Input Voltage	220Vac (1 Phase)		
	Max variation on input voltage	176Vac , 253Vac		
	Input current @ minimum input voltage	<= 85A		
	Efficiency @ rated conditions	>= 90%		
	Max input absorbed power	<= 15000W		
	Selective single module input protection MCBs	6 x 20A 2P		
Output	Rate output Voltage	48Vdc		
	Adjustable output voltage range	42Vdc - 57Vdc		
	Voltage Stability (steady state)	< 1%		
	Alternate rresidual ripple	0,7mV psofom	30mV eff	100m Vpp
	Rated output current	30A -280A		
	Max output current	360A		
	Adjustable output current limit range	27A - 30A on each module		
	Total numer of spare slots for future additional DC Modules	2		

Modular Rectifier / Battery Charger

Output	Load Sharing among the DC Modules	≤ 5% of the DC Module rated current
	Dynamic Regulation for 25% step DC mains variations	≤ 0.1%
	Dynamic Regulation for step load change between 10% and 90%DC Distribution MCBs	≤ 5%
	DC distribution MCBs	3x 120A 2P (customized as per request)
Thermal Features	Dissipated Power	≤ 135kcal/h
	Cooling	Four (4) fans integrated onto each DC Module
Mechanical Features	Diensions W x D x H cm	600x600x1800
	Weight	88 Kg
	Sheet Thckness	2 mm
	Color	RAL 7038
	Load imposed on the floor	255 Kg/m2
Standard References	Safety	EN 60950
	Conducted emissions	EN55022
	Electrostatic discharge immunity	EN 61000-4-2
	RF radiated field immunity	EN 61000-4-3
	Fast transient / burst immunity	EN 61000-4-4
	Surge immunity	EN 61000-4-5