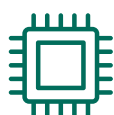


Modular Redundant DC-DC Converter 220Vdc - 48Vdc (30A - 120A)



Power Module
Hot Swappable

Key Features & Benefits



Modular & Scalable

- seamless maintenance, expansion, and upgrade
- modular, redundant architecture (1+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 DC-DC Converter MDCC T 48V 60A (n+1)

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	Rate voltage	220Vdc		
	Max variation on input voltage	176Vdc , 253Vdc		
	Input current @ minimum input voltage	<= 75A		
	Efficiency @ rated conditions	>= 90%		
	Max input absorbed power	<= 16500W		
	Selective single DC-DC converters 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	120A		
	Max output current	140A		
	Adjustable output current limit range	27A - 35A on each module		
	Total numer of spare slots for future additional DC Modules	4		
	Total number of spare slots for future additional DC Modules	2		

Modular DC-DC Converter MDCC T 48V 60A (N+1)

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
Thermal Features	Dissipated Power	≤ 135kcal/h
	Cooling	Four (4) fans integrated onto each DC Module
Mechanical Features	Diensions W x D x H	600x420x820
	Weight	88 Kg
	Sheet Thckness	2 mm
	Color	RAL 7038
	Load imposed on the floor	255 Kg/m ²
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