

DATASHEET

RECTIFIER / DC SYSTEM SFP range

SFP DC-SYSTEMS

24Vdc;	75-150A
48Vdc;	41-83A
60Vdc;	33-66A
110Vdc;	18-36A

Product Description

The SFP rectifier range is using the latest design in high frequency switch mode technology featuring a sinusoidal input current and an extremely high efficiency also at low load situations

The basic power chassis is provided with 2 rectifier slots which allows easy extension of the output power or increased reliability by N+1 redundancy in the power electronics.

The unit can be delivered either as a wall mounted chassis or integrated in a sheet steel cabinet together with a battery to form a complete DC UPS-system. In both cases a DC distribution can be integated optionally.

The FP^{smart} controller comes with a high resolution TFT screen and controls all typical parameters as high, low battery voltage, rectifier fault, earth fault, tripped fuse etc.



Applications

Rectifier module for DC power supply facilities with or without battery in all areas of telecommunication, industry, power generation and power distribution.

Key features

- Very compact design
- Wide input voltage range
- Sinusoidal input current (PFC)
- High efficiency
- Excellent dynamic behaviour
- Very Low ripple voltage
- Digital control with TFT display
- Temperature compensated battery charging



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TECHNICAL DATA				RECTIFIEF		
Nominal output voltage	24Vdc	48Vdc	60Vdc	110Vdc		
Nominal output current	75A / 150A	41A / 83A	33A / 66A	18A / 36A		
Nominal input voltage	230 Vac					
Input voltage range	85 – 300Vac (176 – 275Vac nominal).					
Max. input current	12A / 24A					
Recommended input protection	16A / 25A					
Input frequency range	0-63 Hz					
Input power factor	>0.99 at Pnom >50%					
Total harmonic distortion	<5% at noninal input and max. output					
Efficiency	>94% at 20-100% load					
Charge characteristic			IN41773, power lin			
Charge voltage range	21.7-36.0Vdc	43.4-72.0Vdc	43.4-72.0Vdc	89.2-171.6Vdc		
Default setting charge voltage	26.7Vdc	53.5Vdc	67Vdc	122.6Vdc		
Nominal output current	67.4A / 134.8A	37.3A / 74.7A		16.3A / 32,6A		
Voltage ripple		≤100mVpp ≤150mVpp		≤500mVpp		
Static stability output voltage	±0.5% of Unom at 10%-100% load					
Dynamic stability output voltage	<5% Unom at load step 10%-80%-10% load; regulation time ≤ 50ms					
Short circuit protection	Continuous short circuit proof; 1x Inom					
Parallel operation	Yes, with load sharing ≤ 5% Inom					
Internal decoupling at the output	no (option) Display and keys, WEB interface via standard browser using WebPower					
Local monitorting;						
Remote monitoring;			SNMP protocol and			
Alarm Relays;	3x Potential free cha			130Vdc,1A/40W		
Visual Indications	Green LED – System ON					
	Yellow LED – Minor alarm(s)					
	Red LED – Major alarm(s)					
	Graphical TFT high contrast, high resolution colour display					
Inputs	6 x digital or analogue inputs					
Current Measurements;	Battery current					
	Rectifier current					
	Calculated load current					
Alarms;	Rectifier Failure					
	Low DC voltage alarm					
	High DC voltage alarms					
	DC Earth fault alarm					
	Temperature alarm					
	Mains failure alarm					
	Battery remaining capacity alarm					
	Load/battery MCB tripped alarm					
Ambient temperature	Operation: -40°C to +45°C, storage: -40°C to +80°C					
Cooling	Forced ventlation					
Audible noise	<40dBA at 1m distance					
Type of enclosures (standard)	Wallbox for direct mounting					
Dimensions wallbox	452 (w) / 450 (h) /200 (d) mm					
Weight wallbox	app. 9 kg (2 rectifiers)					
Protection class wallbox	IP20					
Optional enclosures	Sheetsteel cabinet with internal battery					
Dimensions cabinet K1	600 (w) / 400 (d) / 800 (h) mm					
Dimensions cabinet K2	600 (w) / 400 (d) / 1200 (h) mm					
Weight K1/K2	Depending on rating and battery size					
Protection class	IP23 / IP20 with opened door					
Colour		RAL 7				
CE conformity		Ye				
Compliance to safety standards	EN60950-1					
Compliance to EMC standards		EN55011, EN55022, class "B"; EN61000-6-1, -2, -3, -4				
Connections	AC input, DC output and 3x alarmcontacts					