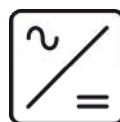


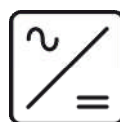
Gelijkrichters en DC-systemen



Gelijkrichters



DC-systemen



RECTIFIER / DC SYSTEM
SPS range

24Vdc;	40-168A
48Vdc;	15-83A
110Vdc;	10-34A

Product Description

The SPS 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 integrated optionally.

The SPS^{mart} 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

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



DATASHEET
SPS DC-SYSTEM

TECHNICAL DATA			RECTIFIER	
Nominal output voltage	24Vdc	48Vdc	60Vdc	110Vdc
Nominal output current	40-168A	15-83A	15-83A	10-34A
Nominal input voltage	230 Vac			
Input voltage range	85 – 300Vac			
Nominal input current	12A or 24 A			
Input protection	32A Circuitbreaker			
Input frequency range	47-63 Hz			
Input power factor	>0.99 at P _{nom} >50%			
Total harmonic distortion	<5% at nominal input and max. output			
Efficiency	91% - 94%			
Charge characteristic	IU according DIN41772/DIN41773, power limited			
Charge voltage range	21.5-36.0Vdc	39.9-72.0Vdc	39.9-72.0Vdc	89.2-171.6Vdc
Default setting charge voltage	26.7Vdc	53.5Vdc	67Vdc	122.6Vdc
Voltage ripple	≤100mVpp	≤150mVpp		≤500mVpp
Dynamic stability output voltage	<5% U _{nom} at load step 10%-80%-10% load; regulation time ≤ 50ms			
Short circuit protection	Continuous short circuit proof; 1x I _{nom}			
Parallel operation	Yes, with load sharing ≤ 5% I _{nom}			
Internal decoupling at the output	no (option)			
Local monitoring;	Display and keys, WEB interface via standard browser using WebPower			
Remote monitoring;	WebPower (WEB Interface, SNMP protocol and email)			
Alarm Relays;	6 x Potential free change over contacts (NO, NC, C); [Max 75V/2A/60W]			
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			
	3x Temperature measurement			
Current Measurements;	Battery current (optional external battery shunt required)			
	Rectifier current			
	Calculated load current (optional external battery shunt required)			
Alarms;	Low output voltage alarms (2 individual alarm levels)			
	High output voltage alarms (2 individual alarm levels)			
	Earth fault alarm			
	Temperature alarm			
	Mains failure alarm			
	Battery remaining capacity alarm			
	Battery low quality alarm			
	Load/battery fuse tripped alarm			
Ambient temperature	Operation: -40°C to +75°C, storage: -40°C to +85°C			
Cooling	Forced ventilation			
Max. installation altitude				
Audible noise	<40dBA at 1m distance			
Type of enclosure (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 (mechanical)			
Optional enclosures	Sheetsteel cabinet with internal battery			
Dimensions	Depending on rating and battery size			
Weight wall	Depending on rating and battery size			
Protection class	IP54 (mechanical)			
Colour	RAL 7035			
CE conformity	yes			
Compliance to safety standards	EN60950-1; VDE0100 T410; VDE0110; EN50178; EN60146			
Compliance to EMC standards	EN55011, EN55022, class "B"; EN61000-4 T2-5			
Connections	AC input, DC output and signalisation: DIN41612-M-connector			

Powerful Solutions



UPS-systemen

Gelijkrichters

DC-systemen

Batterij Management

Advies & Training

Service & Onderhoud

e⁺Power