



## Charging Rectifier type PRX



- **Compact modular** charging rectifier with built-in monitoring and rectifier modules in wall-mounting cabinet, width 245 mm, depth 227 mm, height 340 mm.
- **Plug-in rectifier modules** for output power flexibility, easy service due to hot swap modules and high availability due to parallel operation.
- **Monitoring** of battery, rectifier and distribution. Status and alarms distinctly on display, settings via clear menus for easy handling. Remote alarms via relays. Battery circuit test and monitoring of battery symmetry for early warning of battery faults.
- **Safe operation and high availability** we support you with commissioning and service as well as education in handling and maintenance.
- **Our product range for uninterruptible power** also covers complete DC systems, inverters, uninterruptible motor drive (UMD), distribution boards and batteries. We support you with design and education.

# Charging Rectifier type PRX

## Technical data

### General

PRX is a complete charging rectifier including rectifier modules and monitoring unit. The rectifier can be equipped with up to four rectifier modules of plug-in type. The monitoring unit is a functionally separate unit who communicates with the rectifier modules via a serial interface.

### Enclosure

Type: Mall-mounting cabinet  
 Cable inlet: From below  
 Height: 340 mm  
 Width: 245 mm  
 Depth: 227 mm  
 Weight: 13 kg (fully equipped)  
 Colour: RAL 7035 light grey  
 Class of enclosure: IP21  
 Ventilation: Temperature controlled fans in rectifier modules, otherwise natural convection

### Environmental data

Ambient temperature: Operation, 0 to +40 °C  
 Storage, -40 to +70 °C  
 Humidity: < 90 % RH, non-condensed  
 Altitude a.s.l.: < 2000 m

### Input AC

Frequency: 47 – 63 Hz  
 Power factor: > 0.95 at 230 V<sub>AC</sub>, full load  
 Connection: 0.2 – 4 mm<sup>2</sup>  
 Other: See table

### Complete charging rectifier

PRX			Rectifier module		
Model	U <sub>NOM</sub> (V <sub>DC</sub> )	I <sub>RATED</sub> (A)	Num- ber	I <sub>RATED</sub> (A)	Model
PRX 24/20	24	20	1	20	L0500B-IW
PRX 24/40		40	2	20	L0500B-IW
PRX 24/60		60	1	60	V1500B
PRX 48/12	48	12	1	12	L0600A-IW
PRX 48/24		24	2	12	L0600A-IW
PRX 48/25		25	1	25	L1250A-IW
PRX 48/50-1		50	1	50	L2500A-IW
PRX 48/50-2		50	2	25	L1250A-IW
PRX 110/10	110	10	1	10	L1250K
PRX 110/20		20	2	10	L1250K
PRX 125/9	125	9	1	10	L1250K
PRX 125/18		18	2	10	L1250K



PRX in open service position

### Output DC

Output voltage, nominal: 24/48/110/125 V<sub>DC</sub>  
 Connection: 0.75 – 35 mm<sup>2</sup>  
 Voltage regulation: < 0.5 % of nominal output voltage  
 < 1 % within 3 seconds, 0-100 / 100-10 % load change  
 Current regulation: < 1 % of rated current  
 Current limit range: 0 – 100 % of rated current  
 Ripple voltage: < 0.1 %<sub>rms</sub>  
 Other: See table

### Monitoring unit type PCM2

Monitoring of the complete DC system. Clear graphical display for showing and setting of alarms, operating data, etc. Remote alarm via 4 freely configurable relays.



Distribution: Fuse monitoring, earth fault monitoring, external alarm  
 Battery: Temperature monitoring, battery circuit test, battery symmetry monitoring  
 Rectifier: Over/under voltage, rectifier fault, temperature compensated float charge, automatic equalising charge

### Standards

Safety: EN 50178  
 EMC, immunity: EN 61000-6-2  
 EMC, emission: EN 61000-6-3

### Rectifier module



Output data				Input data			Power loss** W	Model designation
U <sub>NOM</sub> V <sub>DC</sub>	U <sub>RANGE</sub> V <sub>DC</sub>	I <sub>RATED</sub> A	Output power W <sub>MAX</sub>	Input voltage range V <sub>AC</sub>	Mains power* VA	Mains current* A <sub>rms</sub>		
24	21-28	20	560	85-295	670	3.4	92	L0500B-IW
		60	1680	180-264	1960	10.0	187	V1500B
48	42-56	12	672	85-295	800	4.1	92	L0600A-IW
		25	1400	85-295	1600	8.2	156	L1250A-IW
		50	2800	150-295	3150	16.1	312	L2500A-IW
110/125	97.5-145	10	1250	90-300	1410	7.2	139	L1250K

\* maximum at 195 V<sub>AC</sub>

\*\* type at 230 V<sub>AC</sub> and full load

KRV 127A-GB



Specifications given herein may be changed at any time without prior notice



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