

Charging Rectifier

Type PRX



*»We store
the world's energy«*

Network

Type PRX

Charging Rectifier

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.

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:	Wall-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 VAC, full load
Connection:	0.2 – 4 mm ²
Other:	See table

Complete charging rectifier

PRX			Rectifier module		
Model	U_{NOM} (V _{DC})	I_{RATED} (A)	Number	I_{RATED} (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

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PRX in open service position

Output DC

Output voltage, nominal:	24/48/110/125 VDC
Connection:	0.75 – 35 mm ²
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 %rms
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**	Model designation
U_{NOM} V_{DC}	U_{RANGE} V_{DC}	I_{RATED} A	Output power W_{MAX}	Input voltage range V_{AC}	Mains power* VA	Mains current* A_{rms}		
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_{AC}

** type at 230 V_{AC} and full load



Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 100 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications.

GNB Industrial Power – A division of Exide Technologies – offers an extensive range of storage products and services, including solutions for telecommunications systems, railway applications, mining, photovoltaic (solar energy), uninterruptible power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management programme, (an integrated approach to manufacturing, distributing and recycling of lead-acid batteries), has been developed to ensure a safe and responsible life cycle for all of its products.