Monitoring
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 failure.

Battery status
Battery circuit test and symmetry monitoring provides good conditions for early detection of errors in the battery. Battery temperature is monitored and automatically adjusts the float charging voltage.

Plug-in rectifier modules
Provides flexibility by adjusting the output power, easy maintenance with hot swappable and high availability with parallel modules.

Safe operation and high availability
We support you with commissioning and service as well as education in handling and maintenance.

PRX is a complete charging rectifier including rectifier modules and monitoring unit for battery systems with high reliability requirements.

Charging Rectifier type PRX
0,56kW to 5,6kW – 24/48/110/125V DC

www.kraftpowercon.com
Charging Rectifier type PRX

General
PRX is a complete unit consisting of charging rectifier and monitoring unit. The rectifier can be equipped with one or two rectifier modules of plug-in type. The monitoring unit is a functionally independent unit that communicates with 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)
Color: RAL 7035 light grey
Class of enclosure: IP21
Ventilation: Temperature controlled fans in the rectifier modules, otherwise natural convection

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

Input AC
Frequency: 47 – 63 Hz
Power factor: > 0.95 vid 230 VAC, full last
Connection: 0.2 – 4 mm²
Other: See table 1 & 2

Complete Charging Rectifier

<table>
<thead>
<tr>
<th>PRX</th>
<th>Rectifier module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>U Nom (V DC)</td>
</tr>
<tr>
<td>PRX 24/20</td>
<td>24</td>
</tr>
<tr>
<td>PRX 24/40</td>
<td>40</td>
</tr>
<tr>
<td>PRX 48/12</td>
<td>60</td>
</tr>
<tr>
<td>PRX 48/24</td>
<td>24</td>
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<tr>
<td>PRX 48/25</td>
<td>25</td>
</tr>
<tr>
<td>PRX 48/50-1</td>
<td>50</td>
</tr>
<tr>
<td>PRX 48/50-2</td>
<td>50</td>
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<td>PRX 110/10</td>
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<td>PRX 110/20</td>
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<td>PRX 125/9</td>
<td>125</td>
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<td>PRX 125/18</td>
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</tbody>
</table>

Table 1, Ratings

Rectifier module

<table>
<thead>
<tr>
<th>U Nom V DC</th>
<th>U Range V DC</th>
<th>I RATED A</th>
<th>Output Power W Max</th>
<th>Input Power Range V AC</th>
<th>Mains power # VA</th>
<th>Mains current # A Max</th>
<th>Power loss** W</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>21-28</td>
<td>20</td>
<td>560</td>
<td>85-295</td>
<td>670</td>
<td>3.4</td>
<td>187</td>
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<tr>
<td>48</td>
<td>42-56</td>
<td>25</td>
<td>1400</td>
<td>85-295</td>
<td>1600</td>
<td>8.2</td>
<td>156</td>
</tr>
<tr>
<td>110/125</td>
<td>97.5-145</td>
<td>10</td>
<td>1250</td>
<td>90-300</td>
<td>1410</td>
<td>7.2</td>
<td>139</td>
</tr>
</tbody>
</table>

Table 2, Ratings, * maximum at 195VAC, ** type at 230VAC

PRX in open service position

Monitoring unit type PCM2
Monitoring of the complete 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 equalizing charge

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

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