Functional Description

The purpose of the RPS (Redundant Power Selector) is to select seamlessly between the PRI and the SEC inputs to the output OUT.

Normally, the RPS will select the primary input and as the output voltage. If the primary voltage drops below a certain value, the RPS will select and switch to the secondary supply immediately, if the secondary supply has a higher voltage.

Voltage Limits

<table>
<thead>
<tr>
<th>State Change</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary (PRI) to Secondary (SEC) Supply</td>
<td>PRI &lt; 18.0 V AND SEC &gt; 18.0 V</td>
</tr>
<tr>
<td>Secondary (SEC) to Primary (PRI) Supply</td>
<td>PRI &gt; 19.1 V</td>
</tr>
</tbody>
</table>

For More Information:

For the latest updated information, please contact your local distributor or visit the Marine Pro 400 section of the Auto-Maskin web site: [http://www.auto-maskin.com](http://www.auto-maskin.com)

Caution!

Handle with care when opening the bag and installing the unit.

Quick Installation Guide

RPS

P/N 1311229

Redundant Power Selector

- Two 24 VDC inputs.
- One 24 VDC output.
- Seamless switching between Primary and Secondary input voltage.
- Potential free contacts for PRI_OK and SEC_OK monitoring.
- Primary input is the default power source.
- Switch to Secondary input when Primary voltage drops to a certain low level.
- IP4X rated cabinet frame.
Power Ratings

<table>
<thead>
<tr>
<th>Section</th>
<th>Min</th>
<th>Typ.</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pri. Supply Input</td>
<td>0</td>
<td>24</td>
<td>32</td>
<td>VDC</td>
</tr>
<tr>
<td>Sec. Supply Input</td>
<td>18</td>
<td>24</td>
<td>32</td>
<td>VDC</td>
</tr>
<tr>
<td>Output Current</td>
<td>16</td>
<td>A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Continuous at 55°C ambient.
Max ripple 10% without exceeding Min and Max values.

Connectors

 terminal # | Description
------------|-----------------|-----------------|-----------------|-----------------|
 1           | Primary 24 VDC  |
 2           | Primary 0 V     |
 6           | Secondary 24 VDC|
 7           | Secondary 0 V   |
 16          | Power Out 0 V   |
 17          | Power Out 24 VDC|

Optional wiring:

<table>
<thead>
<tr>
<th>Terminal #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Primary Good B: (Common)</td>
</tr>
<tr>
<td>12</td>
<td>Primary Good A: CLOSED; Primary OK OPEN; Primary FAULT</td>
</tr>
<tr>
<td>13</td>
<td>Secondary Good B: (Common)</td>
</tr>
<tr>
<td>14</td>
<td>Secondary Good A: CLOSED; Secondary OK OPEN; Secondary FAULT</td>
</tr>
</tbody>
</table>

For further details and information, please see the RPS Installation Manual.

Responsibilities:
It is the sole responsibility of the installer to ensure that the installation work is carried out in a satisfactorily manner and meet all applicable rules and regulations.

Note:
Auto-Maskin continuously upgrades its products and reserves the right to make changes and improvements without prior notice.

Additional Documentation:
Please visit the Marine Pro 400 section of the Auto-Maskin website for the following enhanced documentation:
- Installation Manual
- Datasheet

http://www.auto-maskin.com

Circuit Breaker

The RPS shall have a 10 A or smaller circuit breaker on both PRI and SEC input channels.
There is no need for an extra circuit breaker on the OUT channel.