

What's in the Box?

1. RPS in an ESD Bag
2. Quick Installation Guide



Caution!

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

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

State Change	
Primary (PRI) to Secondary (SEC) Supply	PRI < 18.0 V AND SEC > 18.0 V
Secondary (SEC) to Primary (PRI) Supply	PRI > 19.1 V

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>



Marine Pro. 400

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.

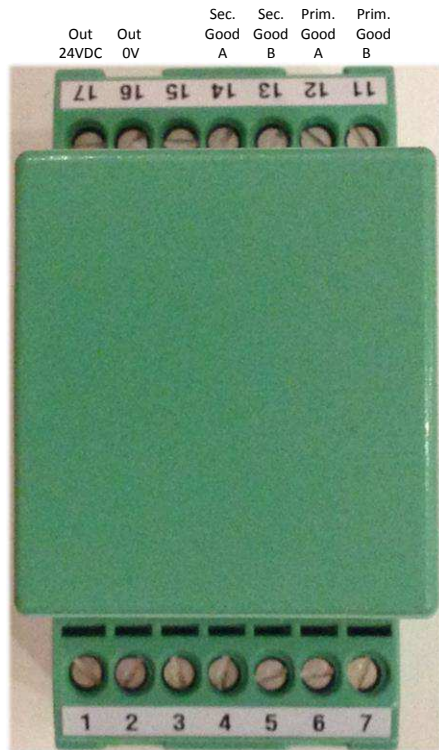
Power Ratings

Section	Min	Typ.	Max	Unit
Pri. Supply Input	0	24	32	VDC
Sec. Supply Input	18	24	32	VDC
Output Current			16	A

Continuous at 55°C ambient.

Max ripple 10% without exceeding Min and Max values.

Connectors



Out 24VDC	Out 0V	Sec. Good A	Sec. Good B	Prim. Good A	Prim. Good B
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Prim. 24VDC	Prim. 0V	Sec. 24VDC	Sec. 0V
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Responsibilities:

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

Installation Steps

The following wiring is mandatory:

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:

Terminal #	Description
11	Primary Good B: (Common)
12	Primary Good A: CLOSED; Primary OK OPEN; Primary FAULT
13	Secondary Good B: (Common)
14	Secondary Good A: CLOSED; Secondary OK OPEN; Secondary FAULT

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

Note:

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

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.

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>