

# Power

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## Overview

The power system within the submarine is divided into two sections: thruster power and bulkhead power. The power system must safely provide control and distribution of battery power to all systems in the submarine that require it.

## Design

The two power systems should be controlled through two relays that are controlled by reed switches. The reed switches must be able to be activated even when the submarine systems are unpowered (this allows for a self-start). Both power systems must be properly fused at the appropriate amperage ratings. Additionally,

## Resources

Part	Description
<a href="#">Main Battery</a>	16000mAh LiPo 4S - Main submarine power supply.
<a href="#">UPS Battery</a>	4200mAh LiFePo4 3S battery for the UPS.
<a href="#">BQ76200</a>	LiPo Battery protection chip.
<a href="#">BQ76920</a>	LiPo active cell balancing chip.

From:

<http://robosub-old.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

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