

# BlueROV2 Connected Through the Tether Cable Eliminates the Need for Batteries



Blue Robotics has announced their newest product, the Outland Technology Power Supply for the [BlueROV2](#), which was developed and manufactured by Outland Technology of Slidell (Louisiana, US). The Outland Technology Power Supply (OTPS) provides a solution to power the BlueROV2 through the tether cable, eliminating the need for batteries and allowing it to be operated indefinitely. The OTPS is available immediately from Blue Robotics, starting at \$11,300 for a complete system.

The challenge with powering any ROV from the surface is the electrical power loss through the tether. A long tether with small wires, like that used on most ROVs, has an electrical resistance that causes a voltage drop proportional to the amount of electrical current passing through the wires. The best way to overcome this challenge is to transfer

the power at a high voltage and low current, minimizing power losses. The OTPS does exactly this by converting normal household power (100-240 VAC) to 400 volts DC to transfer through the tether.

## Topside Power Supply

Once it reaches the ROV, the 400 volt power is converted down to the 15 volts needed to power the ROV.

The Outland Technology Power Supply is comprised of three components: the topside power supply unit, the ROV enclosure, and the tether, which can be purchased in 125m and 250m lengths. The ROV enclosure comes with a pre-installed power cable and a tether signal cable with penetrators, making it a drop-in replacement for the original battery tube.

Blue Robotics is based in Torrance (California, US) and launched in 2014 with a highly successful Kickstarter campaign. Since then, the company has shipped thousands of thruster motors and has released many other products for marine robotics. Blue Robotics' products are in operation in over 40 countries worldwide.

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