



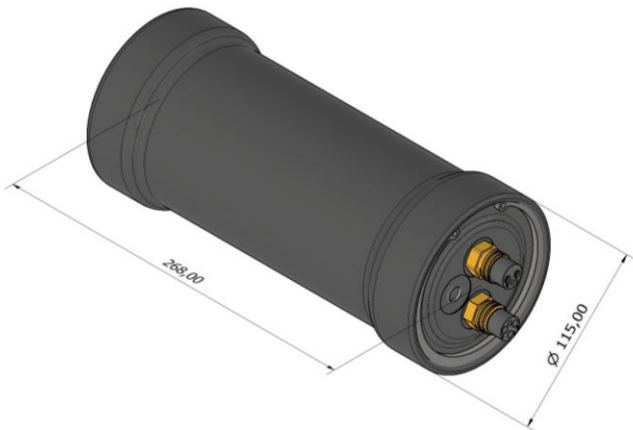
TRiOVolt-S

Compact Underwater Battery pack

The TRIOVolt-S from SeaTRiO Ltd. is a compact and reliable subsea battery pack, designed to deliver consistent power in demanding underwater environments. Featuring a 25.6V output and a 5Ah capacity, the TRIOVolt-S utilises advanced LiFePO_4 (Lithium Iron Phosphate) battery chemistry, known for its high safety, long cycle life, and excellent thermal stability. An internal Battery Management System (BMS) provides vital protection against over-voltage, under-voltage and over-current conditions, ensuring safe and efficient operation in mission-critical applications.

TRiOVolt-S is ideal for powering a range of subsea instruments, sensors, or systems—whether used on remotely operated vehicles (ROVs), autonomous underwater vehicles (AUVs), or static monitoring platforms. Engineered for durability and safety, the battery pack is housed in a rugged enclosure and fitted with a pressure relief valve as standard to protect against internal pressure build-up. Two connectors are provided: one acts as the main supply output, while the other can serve as an enabling plug to interface with external control logic. Additionally, an optional pressure switch is available, allowing the pack to automatically activate upon submersion, further enhancing its suitability for fully autonomous or unattended subsea operations

Power	25.6V
Max discharge Current	10A
Capacity	5Ah
Discharge Temperature	-10° to 45°C
Charge Temperature	0° to 45°C
Battery Chemistry	LiFePO ₄
Pressure relieve valve	Peek as standard
Optional pressure switch	Mechanical switch, Adjustable from 1 to 10m water depth
Connector	MCBH3F and MCBHR2F, others on request



Model	TRiOVolt-S500	TRiOVolt-S4000
Depth Rating	500m	4000m
Diameter	115mm	115mm
Length	268mm	268mm
Weight in Air	4kg	5.3kg
Weight in Water	1.9kg	3.2kg
Material	Acetal	Anodised Aluminium