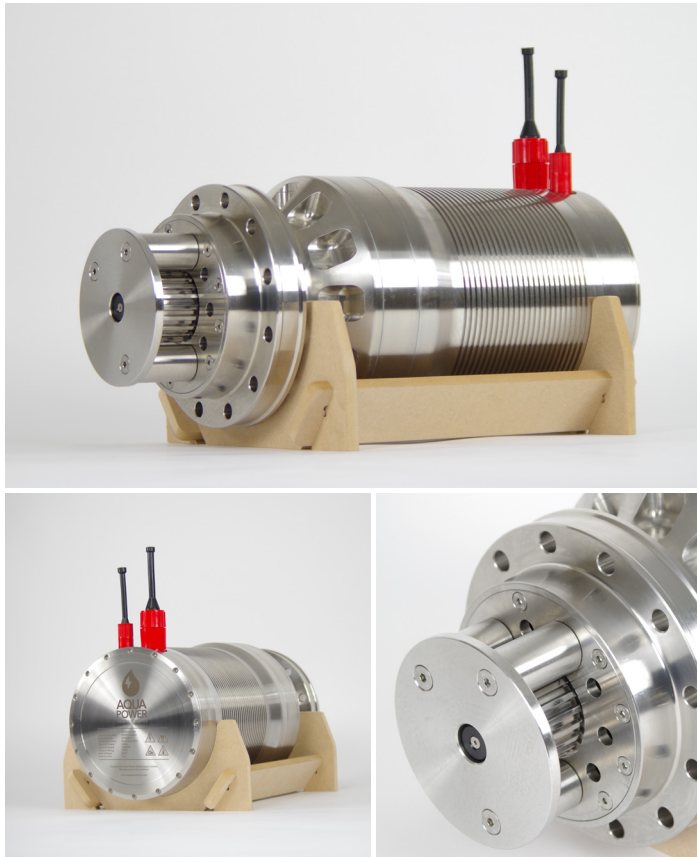


AQUAGEN_{2.3}

A submersible direct drive pulley belt generator.



**AQUA
POWER**
Technologies



Highlights

- Direct drive custom generator.
- No oil, shaft seals, or gearbox.
- Machined from 316 Stainless Steel.
- IP68 submersible to 15 meters.
- Programmable logic controller.
- Low cost serviceable components.
- Multiple ratio selection options.
- Absolute shaft position sensing.
- RS232 communication port.
- All-in-one subsea generator.

Patent Pending: PCT/GB2017/053411

Overview

AQUAGEN is an all-in-one power take-off solution to generate power in subsea environments. The generator contains a direct drive custom-designed alternator and uses no shaft seals or oil in its' drive train. The lack of a gearbox or any mechanical meshing components within AQUAGEN ensures the products longevity, reliability, and continued power generation, in severe operating environments.

A programmable microcontroller, RS232 communication, and shaft position sensors provide options for real-time position updates, or load-latching control algorithms to be implemented into AQUAGEN. In addition, the hermitically sealed all-in-one generator eliminates the necessity for sealed hulls to house complex power take-off systems, therefore reducing capital costs of water based energy devices.

Technical Specification

Rated Speed:	500RPM
Rated Power:	2.3kW
Rated Torque:	54Nm
Volt/RPM:	4.67V/1RPM
Mass In Air:	56kg
Dimensions:	498mm x 230mm

Build Options

Shaft Sensor:	Encoder, Potentiometer
Pulley:	Profile, Diameter

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