

Subsea & marine

Reliable subsea operations



IPP's high-power wireless charging technology eliminates the failure points of traditional subsea connectors, delivering reliable, maintenance-free under water operation.

Conventional subsea power connectors degrade with every connection cycle. Metal contacts corrode, seals wear out, and failures lead to costly maintenance and operational downtime.

IPP replaces physical connectors with fully sealed, contactless charging. The system features zero moving parts and is fully protected against water ingress and corrosion. It also enables tetherless charging for UUVs, improving reliability, reducing maintenance costs, and maximising operational uptime.

TECHNOLOGY ADVANTAGES

Capable of 10 kW+ of power transfer, supporting multiple C-rate charging, maximising operational readiness.

Elegant physics and MHz frequency allow simple, efficient design and a high tolerance to coil misalignment.

Operating at 13.56 MHz minimises efficiency loss in seawater. Transmission to nearby metallic components or objects is negligible.

Efficient power projection through non-conductive materials. Capability to power through hull and UUV walls (non-metallic), enabling power transfer from larger vessels to smaller autonomous drone ships.

Transmitter and receiver coils can be flexible in terms of shape, size and arrangement, allowing high-power wireless charging solutions in space-restricted areas such as submarine torpedo tubes or underwater robotics.

Bi-directional power and data transfer capability.

To discuss a specific application or mission requirement, contact us.

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