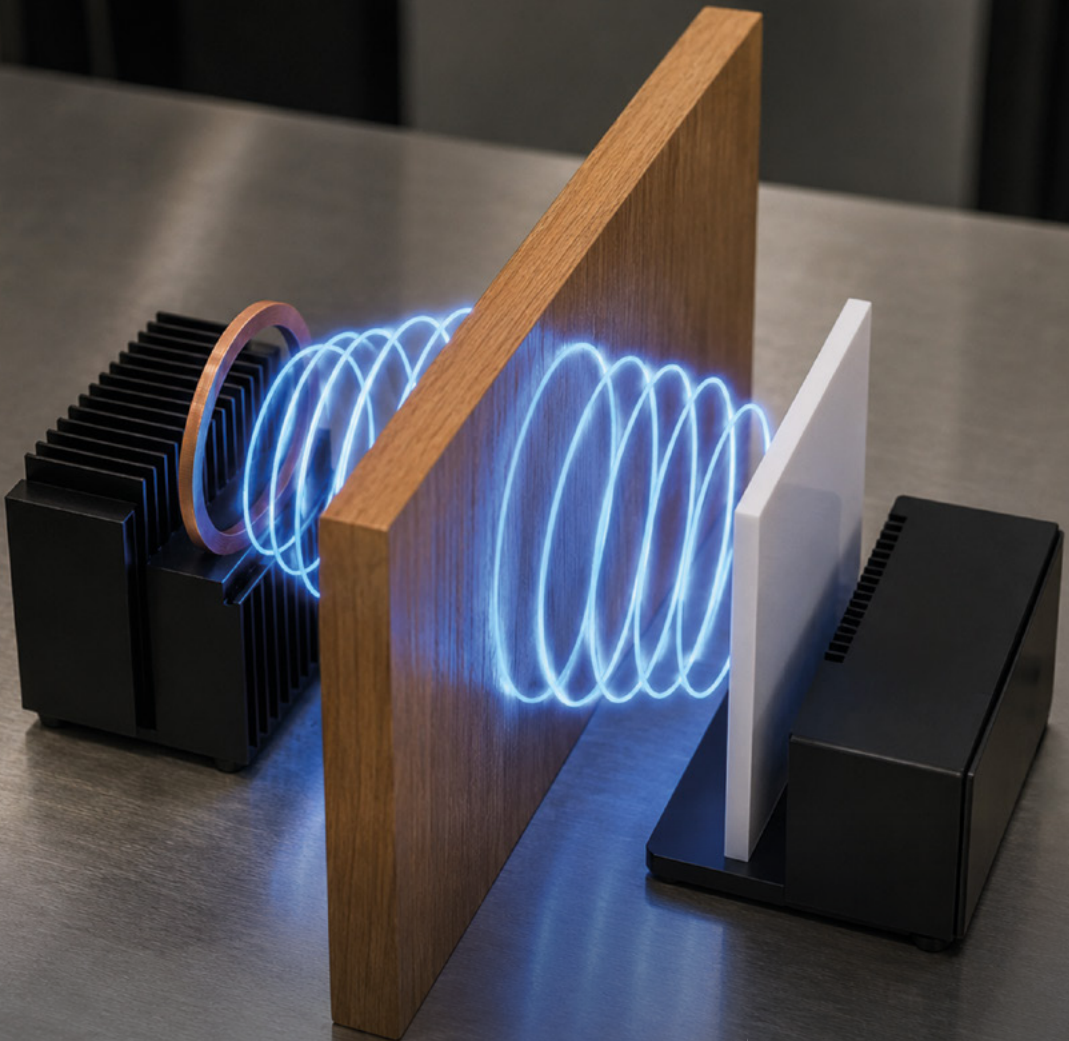


Industrial & hazardous environments

Safe, contactless power delivery



Industrial & hazardous environments



IPP's high-power wireless charging technology delivers power through sealed barriers without cables, connectors, or penetrations.

Powering equipment inside hazardous or sealed environments – such as hydrogen systems, nuclear facilities, and explosive atmospheres – typically requires cable penetrations that create potential leak paths, failure points, and certification challenges.

IPP transfers high-power energy through walls and barriers with zero moving parts and no physical penetration. The result is a safer, fully sealed solution that improves reliability, simplifies compliance, and reduces maintenance in critical environments.

TECHNOLOGY ADVANTAGES

Projects power through non-conductive materials, allowing power to be delivered through walls and enclosures with no penetration, preserving ATEX-rated or hazardous area integrity.

Capable of 10 kW+ of power transfer, supporting anything from low-power sensors to industrial-scale power requirements.

No moving parts allow high reliability without maintenance access to hazardous or sealed zones.

Operating at 13.56 MHz minimises efficiency loss (98% efficiency ring to ring). Transmission to nearby metallic components or objects is negligible.

Transmitter and receiver coils can be flexible in terms of shape, size and arrangement, allowing high-power wireless charging installation through walls and enclosures of varying thickness and construction.

Bi-directional power and data transfer capability.

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

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