

Airborne systems

Maximum fleet availability



Airborne systems



IPP's MHz wireless charging technology enables fully autonomous drone operations through high-power, contactless charging with zero maintenance.

Current drone fleets still rely on manual charging and battery swapping, increasing labour costs, operational complexity, and safety risks. Existing automated solutions remain mechanically complex and are expensive to maintain.

IPP eliminates these limitations with high-power wireless energy transfer that requires no physical connection. The result is a reliable, maintenance-free solution that reduces operating costs, maximises fleet availability, and enables scalable autonomous drone operations.

TECHNOLOGY ADVANTAGES

Capable of 10 kW+ of power transfer, supporting multiple C-rate charging, maximising operational readiness and the ability to charge large UAVs.

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

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

Thin air-cored copper rings (or electroplated 3D printed materials) allow a low subsystem mass, preserving critical payload and endurance for UAVs.

Power can be transmitted through non-conductive materials, meaning sealed systems are impervious to dust, dirt, leaves and any other environmental challenges.

Bi-directional power and data transfer capability.

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

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