

Info Sheet

Uninterruptible Power Supply (UPS) & Storage Units

Reliable backup. Seamless continuity.

1. Overview

IPU SA's **UPS & Energy Storage Systems** ensure uninterrupted power for critical loads by bridging the gap between grid failure and generator start-up — or fully supporting systems during outages. Designed to protect sensitive electronics and infrastructure, our UPS solutions are available in online double-conversion, modular, and line-interactive formats. Complemented by advanced battery storage units, these systems offer energy resilience, voltage stability, and power conditioning in high-stakes environments like healthcare, telecom, industrial automation, and smart buildings.

2. Key Features

- Online double-conversion and modular UPS designs
- High-frequency or transformer-based architecture
- Scalable storage units (Li-ion, VRLA, or hybrid chemistries)
- Fast switching (<10 ms) and zero transfer time options
- Integrated bypass, surge protection, and overload control
- Battery Management System (BMS) with diagnostics
- Real-time monitoring via LCD, HMI, or remote access
- Configurable runtime and backup durations

3. Applications

- Hospitals and intensive care units
- Data centers and telecom exchanges
- Control rooms and industrial automation
- Government, military, and disaster-prepared facilities
- Laboratories and sensitive equipment environments

4. Integration Capabilities

- Designed for plug-and-play integration with IPU SA ATS and Synchronization Systems
- Compatible with SCADA, BMS, and centralized power dashboards
- Interface-ready for PV solar or diesel hybrid systems
- Battery monitoring and alarms tied to remote systems

5. Certifications & Standards

- UPS systems comply with **IEC 62040**, **IEC 61000**, and **EN 62040**
- Batteries meet **UL**, **CE**, and **IEC 62619** standards
- OEM-sourced components from APC, Eaton, Huawei, and more
- FAT-tested and delivered with configuration support