

Info Sheet

Paralleling Switchgear

Synchronize multiple sources with centralized intelligence.

1. Overview

IPU SA's **Paralleling Switchgear** solutions are built to coordinate multiple generators or mixed power sources — enabling seamless integration with the grid, standby systems, or prime power configurations. These panels include the full suite of protection, control, synchronization, and monitoring components necessary to optimize power reliability in complex environments.

Our solutions are used in high-stakes applications where automatic load transfer, fail-safe redundancy, and generator coordination are non-negotiable.

2. Key Features

- Synchronization of multiple gen-sets or gen-set + utility sources
- PLC-based automation with touchscreen HMI
- Load sharing, load shedding, and peak shaving logic
- Redundant control options (hot standby)
- Built-in generator control and protection modules
- Real-time monitoring, alarm logging, and diagnostics
- Modular design for expandability and retrofit integration
- Remote access and SCADA compatibility

3. Applications

- Hospitals and emergency infrastructure
- Airports and transportation hubs
- Data centers and telecom switching sites
- Oil & gas, mining, and heavy industries
- Government facilities and multi-phase projects

4. Integration Capabilities

- Full integration with SCADA, EMS, and BMS platforms
- Compatible with generator ECUs, MV switchgear, and UPS
- Protocols supported: Modbus, Ethernet/IP, analog I/O, SNMP
- Works seamlessly with IPU SA ATS, MCC, and load management panels

5. Certifications & Standards

- Compliant with **IEC 61439**, **IEC 60947**, and local authority requirements
- Panel testing per OEM and project FAT specs
- Schneider, ComAp, Deep Sea, and Woodward control integration available