

# Info Sheet

## LV Synchronization Control System

*Reliable backup and load management at the low voltage level.*

### 1. Overview

IPU SA's **LV Synchronization Control Systems** are engineered to manage backup generator synchronization and power switching in critical low-voltage (LV) applications. These panels enable seamless control, automatic or manual switching, and load balancing — ensuring uninterrupted power during mains failure and maximizing operational reliability.

Ideal for commercial facilities, industrial operations, and infrastructure requiring **gen-set coordination**, **load sharing**, and **redundant control**, our systems are compliant with both **project-specific specs** and **international standards**.

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### 2. Key Features

- Automatic or manual synchronization
  - Load sharing & load shedding logic
  - Backup and prime power modes
  - Mains fail detection & smooth transfer
  - Duty/standby switching
  - Data archiving & remote access
  - Built-in protection functions
  - Integration with SCADA/PLC systems
  - Support for third-party MV switchgear and generator ECUs
  - Redundant controller support (optional)
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### 3. Applications

- Data centers
  - Hospitals
  - Water treatment plants
  - Industrial production sites
  - Government buildings
  - Airports and logistics hubs
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### 4. Integration Capabilities

- Supports Modbus, analog, and digital I/O interfaces
  - Compatible with major generator ECU/speed governor systems
  - Interfaces easily with IPU SA's **SCADA**, **MCCs**, and **load management systems**
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### 5. Certifications & Standards

- Built to IEC 61439
- Type-tested or custom-built per project specs
- OEM component compatibility (e.g., Schneider, ComAp, ABB)