

Info Sheet

Power Factor Correctors (PFC)

Optimize energy usage. Eliminate reactive losses.

1. Overview

IPU SA's **Power Factor Correctors (PFC)** are engineered to reduce reactive power and improve overall power factor in electrical systems. By compensating for inductive loads using capacitor banks and advanced control systems, our PFC solutions help lower utility costs, free up system capacity, and ensure compliance with local grid standards. Available in both **passive** and **active** configurations, our systems are tailored to meet the dynamic demands of each facility — whether for a data center, industrial plant, or commercial building.

2. Key Features

- Improves power factor close to unity (0.98–1.0)
 - Reduces reactive power and apparent power draw
 - Fixed, stepped, or dynamic compensation modes
 - Supports automatic switching and real-time correction
 - Enhances system capacity without infrastructure upgrades
 - Avoids utility surcharges related to low power factor
 - Integration-ready with harmonic filters and analyzers
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3. Applications

- Facilities with large inductive loads (motors, HVAC, pumps)
 - Buildings facing utility penalties or voltage drops
 - Industrial zones seeking energy optimization
 - Power systems requiring load balancing and VAR control
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4. Integration Capabilities

- Seamlessly interfaces with IPU SA's Active Harmonic Filters and SCADA systems
 - Supports Modbus RTU/TCP, analog control, and I/O signaling
 - Programmable relay logic for adaptive control
 - Can be installed at main distribution or load centers
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5. Certifications & Standards

- Complies with **IEEE 519**, **IEC 60831**, and utility regulations
- Built using certified OEM capacitors, controllers, and contactors
- FAT-tested and site-ready