

# 100/200/250kVA

## Flexible Interconnection Device



### Grid side

- ◆ Inter-station power sharing to address heavy load issues in the power distribution area
- ◆ Fault isolation and power outage support to ensure supply reliability
- ◆ Power quality management for the distribution area to improve supply quality
- ◆ Source-load-storage intelligent interaction to address efficient integration and utilization of solar storage and charging systems
- ◆ Backend monitoring system with collaborative control, enabling online monitoring of enterprise transformers and critical production loads. This ensures that energy usage is observable, measurable, adjustable, and controllable.

### User side

- ◆ Power support between light and heavy-load transformers, achieving dynamic capacity expansion. This approach delays the need for transformer capacity upgrades, reducing both expansion costs and capacity-related electricity fees.
- ◆ Flexible interaction between photovoltaic, energy storage, and enterprise loads allows precise control of peak electricity demand, reducing demand charges.
- ◆ Backend monitoring system with collaborative control, providing online monitoring of enterprise transformers and critical production loads. This ensures that energy usage is observable, measurable, adjustable, and controllable.
- ◆ Intelligent power interaction between multiple energy storage grid points, creating an integrated energy storage system. This approach maximizes transformer capacity and expands energy storage integration capacity.
- ◆ Equipped with intelligent integrated control functions for source, grid, load, and storage, enabling enterprise microgrid autonomy and maximizing auxiliary service revenue for the enterprise.

### DC Parameters

Rated voltage (V)	750
Voltage range (V)	700-800
Rated current (A)	150、270、350
Voltage ripple coefficient	No more than 1%

### AC Parameters

Rated power (kW)	100, 200, 250 kW
Rated voltage (V)	AC 380V
Voltage range	Un ± 10% Un
Wiring method	Three-phase four-wire
Rated frequency	50Hz
Frequency range	50Hz ± 0.8Hz
Output harmonics	≤ 3% (at rated power)
Leakage current	< 100mA
Power step response time	< 100 milliseconds
Voltage ripple coefficient	≤ 1

### System Parameters

Number of ports	Dual port
No-load loss	≤ 0.5%
Capacity (kVA)	Dual-port 100 / 200 / 250 kVA
Reactive power compensation capability	Single-side ≥ 15% of transformer capacity
System topology	AC side three-phase four-wire, AC/DC hybrid loop, excluding isolation transformer
Function description	Overload transfer, power outage transfer, source-load interaction, AC/DC hybrid power supply
Cabinet protection level	IP54 (outdoor) / IP20 (indoor)
Cooling method	Air cooling
Installation method	Floor-mounted / Pole-mounted
Compliance standards	GB/T 34120-2017
Operating temperature	-20°C to 45°C
Storage temperature	-20°C to 70°C
Operating humidity	5% to 95% RH (non-condensing)
Operating altitude	2000m (derating above 2000m)
Communication interface	Ethernet / RS485
Communication protocol	MODBUS
Control method	Local EMS / Cloud platform
Three-phase imbalance management	Supported
Off-grid mode	800 × 800 × 2200 mm / 1000 × 800 × 2200 mm
Dimensions (W * D * H mm)	