

X-Series

MV Skid

2.500 kW

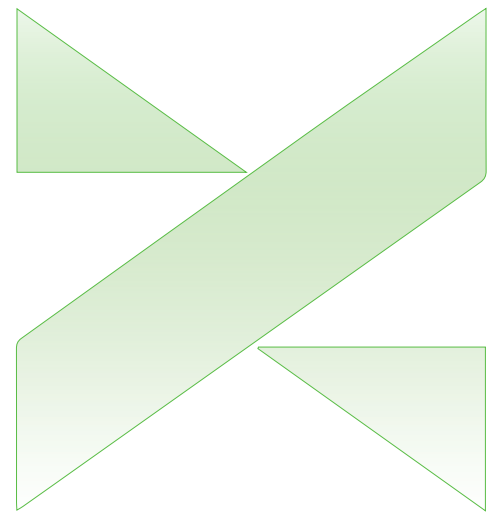
Integrated medium voltage skid system designed to integrate in the grid with maximum reliability and flexibility

Improved Safety Characteristics

- Built-in prevention mechanisms: premium-grade electrical components, advanced battery management and system-level safeguards
- AI-based fault monitoring: real-time detection of overcurrent, overvoltage, thermal stress, and grid anomalies
- Dynamic cooling systems: optimized air and liquid cooling setups with auxiliary protection measures
- Robust insulation: heat-resistant enclosures and advanced deflagration mitigation technologies
- Ultra-wide operating temperature range for extreme climate resilience

Optimized Solution

- Flexible modular topology, ideal for various application scenarios from energy storage to hybrid renewable systems
- Optimal energy capacity management enabled through advanced system sizing and scalable configuration
- Space-saving design: compact layout allowing side-by-side and back-to-back installation
- Engineered for durability and reliable performance under demanding environmental and operational conditions
- Grid-forming capabilities for enhanced grid stability and black start operations



DC PARAMETERS

DC Input Channel No	12
Maximum DC Current	209 A * 12
DC Voltage Operating Range	1.000V ... 1.500 V

AC PARAMETERS

Total Rated Power	2.500 kW
Maximum Output Power	2.750 kVA
Rated Voltage	690 Vac
Isolation Mode	Transformer Isolation
Reactive Power Range	0~2625 kVar

ON-GRID MODE

Rated Grid Voltage	6~35 kV (Customizable)
Rated Grid Frequency	50 Hz / 60 Hz
THDi	< 3%
Power Factor	~1~1

TRANSFORMER PARAMETERS

Rated Capacity	2500 kVA
LV/MV Voltage	0,69 / (6~35) kV

SYSTEM PARAMETERS

Dimensions (W*H*D)	6.058×2.896×2.438mm
Operating Temperature	-40°C~+60°C (Derating above 45°C)
Operating Humidity	0~100%
Operating Altitude	≤4000 m (No derating within 3000m)
Protection Degree	IP54 (PCS IP66)
BMS Communication	RS485 / CAN
EMS Communication	Ethernet Interface
Communication Protocol	Modbus RTU / Modbus TCP IEC104 / IEC61850
Standard Compliance	GB/T 34120, IEC62477, IEC61000, EN50549
Grid Support	H / LVRT, Frequency adjustment function, Voltage adjustment function, Inertia response, Etc.