

X-Series

MV Box

2.5 MW | 5.0 MW | 10.0 MW

Reliable MV AC system to flexibly integrate into the grid

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 or 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
- Engineered for durability and reliable performance under demanding environmental and operational conditions
- Grid-forming capabilities for enhanced grid stability and black start operations

ELECTRICAL DC INPUT	2.5 MW	5.0 MW	10.0 MW
Maximum DC Current	1310×2A _{DC}	1310×4A _{DC}	1310×8A _{DC}
DC Operating Voltage	1,000 V _{DC} ... 1,500 V _{DC}		

ELECTRICAL AC OUTPUT	2.5 MW	5.0 MW	10.0 MW
Nominal Power	2'500 kW	5'000 kW	10'000 kW
Maximum Output Power	2'750 kVA	5'500 kVA	11'000 kVA
Galvanic Isolation	Yes		
Reactive Power Range	0-2'625 kVAr	0,5'250 kVAr	0-10'500 kVAr
Rated Voltage	6~35 kV (Customizable)		
Rated Frequency	50 Hz		
THDi	< 3%		
Power Factor	-1~1		

MECHANICAL	2.5 MW	5.0 MW	10.0 MW
Dimensions (W × D × H)	6,058 × 2,438 x 2,896 mm (20ft)	7,580 × 2,438 x 2,896 mm (25ft)	12,191 × 2,438 x 2,896 mm (40ft)
Weight	<18,000 kg	<24,000 kg	<38,000 kg
Protection Level	IP 54		

AMBIENT	
Application Altitude	≤4,000 m
Application Temperature	-30°C ~ +55°C
Storage Temperature	-20°C ~ +35°C

COMPLIANCE	
IEC61000, EN50549, IEC62477	

