Star Charge

M100-E

Energy Storage Converter

Factory

Parking

Destination

eBox

M100-E is a rack-type, transformerless energy storage converter that integrates PCS and power distribution functions with an output power of 100~135 kW. Its revolutionary design makes it adaptable to AC-coupled, DC-coupled, and combined AC- & DC-coupled architectures. It can be seamlessly integrated into energy storage cabinets, making the energy storage system ideal for commercial and industrial applications and supporting both on-grid and off-grid operations.

High Integration

The M100-E integrates PCS, AC, and DC distribution functions within a single compact unit, saving space and can be placed horizontally or vertically for much greater flexibility.

High Adaptability

Supports AC-coupled, DC-coupled, and combined AC- & DC-coupled architectures, enabling versatile energy storage solutions.

High Efficiency

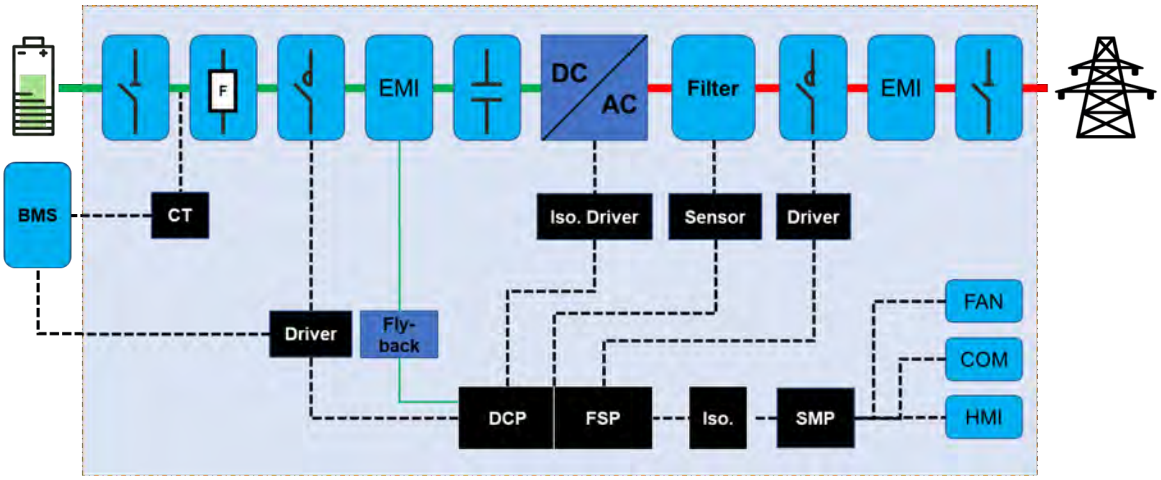
Designed with muti-level topology, achieving efficiency levels up to 98.1%, maximizing energy conversion and minimizing losses.

High Protection Grade

Built with IP65 and C5 protection ratings, ensuring robust performance and durability in various environmental conditions.

Metis

Electrical Connections and Main Circuit



High integration

- DC HV box integrated
- Reduced duplicated components
- Standardized design and reduce connection cables
- Support on-gird and off-grid operation without TR

High Efficiency

- Multi-level topology
- DPWM modulation reduces power loss
- peak efficiency up to 98.1%

User case: Industrial & Sciesce Park

User case: Public Charging Station

Specifications

Specifications are subject to change without notice.

Rated power	100 kW
Max. eff.	98.1 %
Battery voltage range	650 Vdc ~ 950 Vdc
AC output	380 Vac / 400 Vac, 3W+N+PE
Communication	CAN / RS485 / Ethernet（optional）/ EtherCAT（optional）
Display	LEDs
Working temp. range	-25 ℃ to 60 ℃（>45℃ derating）
Protection	IP65
Dimension (H x W x D)	266 x 700 x 750 mm
Cooling	Intelligent forced air cooling
Safety	IEC 62477-1
Grid connection standards(pending)	EN 50549-1, CE10-21, RENBLAD 342, G99, Vde-AR-N4105k
EMC	IEC61000-6-2/-4