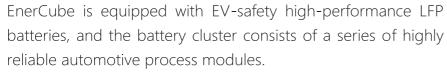


EnerCube

Containerized Battery Energy Storage System



EnerCube adopts All-in-One design and integrates battery modules, intelligent Power Conversion System (PCS), Power Distribution Unit (PDU), Fire Suppression System (FSS), Temperature Control System (TCS), and intelligent Monitoring System (IMS) by one-stop in the container of international standard size, which is easy to lift and transfer, well meet the requirements of ocean and highway transportation.

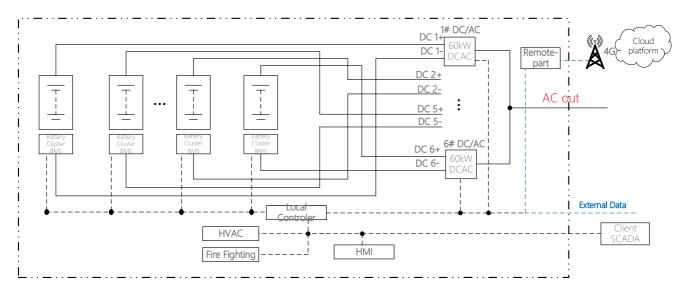


Battery Management System (BMS) automatically control and monitor the entire battery system in real time, and it also has



functions such as battery balance management and fault self-diagnosis to ensure the safe and smooth operation of the module. At the same time, the Energy Management System (EMS) is responsible for the overall scheduling and the intelligent interconnection with cloud platforms, enabling 24-hour cloud data analysis and intelligent operation and maintenance.

TOPOLOGY







- Containers of international standard sizes are convenient for integrated transportation.
- Recycled EV LFP batteries, high efficiency & security and low cost.
- All-in-One design and integrated PCS, FSS, Local control system and HVAC to improve on-site installation.
- Series PCS are used to improve the operating efficiency and utilization of the system.
- Automatic gas extinguishing system and combustible gas detection system are adopted to ensure active safety of system.
- ⇒ Apply to peak-load shifting and smoothing the fluctuations of PV and wind power generation and can also be used for EV charging station for energy storage.
- Support integrating with PV and diesel generators.

PRODUCT PARAMETERS

Item	EnerCube2.0-1000
Cell type	LFP-220Ah
Module model	1P12S
System configuration	6*1P240S
Battery capacity(BOL)	1013.76kWh
Battery voltage range	672V ~ 864V
Rated output power	360kW
Max. output power	360kW
Rated voltage	AC400, 3P4W+PE
Rated grid frequency	50Hz±5Hz/60Hz±5Hz
Max. output current	516A
Power factor	0.8 (Leading) ~0.8 (Lagging)
THD	< 3%
Overload capacity	110%, 10 mins; 120%, 60s
General parameters	
Container dimension (W*D*H)	6058×2438×2896mm
Weight	18000kg
Isolation transformer	No
Protection grade	Battery room: IP54, PCS room: IP34
Container anti-corrosion grade	C3



Operating temperature [1]	-20℃ ~ 55℃
Relative humidity	0-95% (non-condensing)
Max. running altitude [2]	2000m
Cooling type of battery room	Battery room: HVAC, PCS room: forced air cooling
Noise	≤75dB
System efficiency	≥88%
Design Life	10years+
Fire fighting design	FAS & FM200
Communication interface and protocol	Ethernet, Modbus TCP/IP
Design standard	G99, IEC 62933, IEC62619, GB_T36558

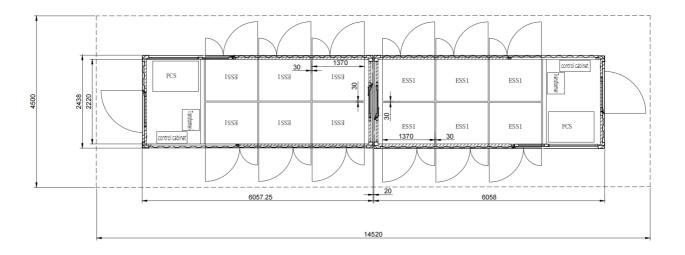
Notes:

- [1] The system will be derated when the ambient temperature exceeds 45°C.
- [2] The system will be derated when the altitude is between 2000 and 3000m.



System Layout

Layout 1: Horizontal layout





Layout 2: Vertical layout

