MBT-SEETEL
ENERGY

HEAVY-DUTY ESS

AI

AI-driven diagnostics and predictive maintenance

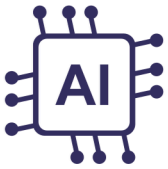
Autonomous fault detection and automatic recovery

Remote monitoring and cybersecurity protection

Immediate fire alerts and emergency response

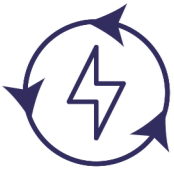
SAFETY STRATEGY

Our EMS employs advanced software-driven security mechanisms to ensure real-time monitoring, intelligent diagnostics, and automated risk prevention, significantly reducing failure risks.



AI-driven diagnostics and predictive maintenance

The AI proactively monitors voltage fluctuations, current anomalies, temperature variations, and insulation resistance changes, issuing warnings, and implementing corrections before failures occur.



Autonomous fault detection and automatic recovery

Real-time battery voltage monitoring ensures stable operation. The BMS automatically adjusts current output to prevent overcharging and over-discharging.

Remote monitoring and cybersecurity protection

Operators can access system status and remotely manage devices via a web console or mobile app anytime, anywhere.

Immediate fire alerts and emergency response

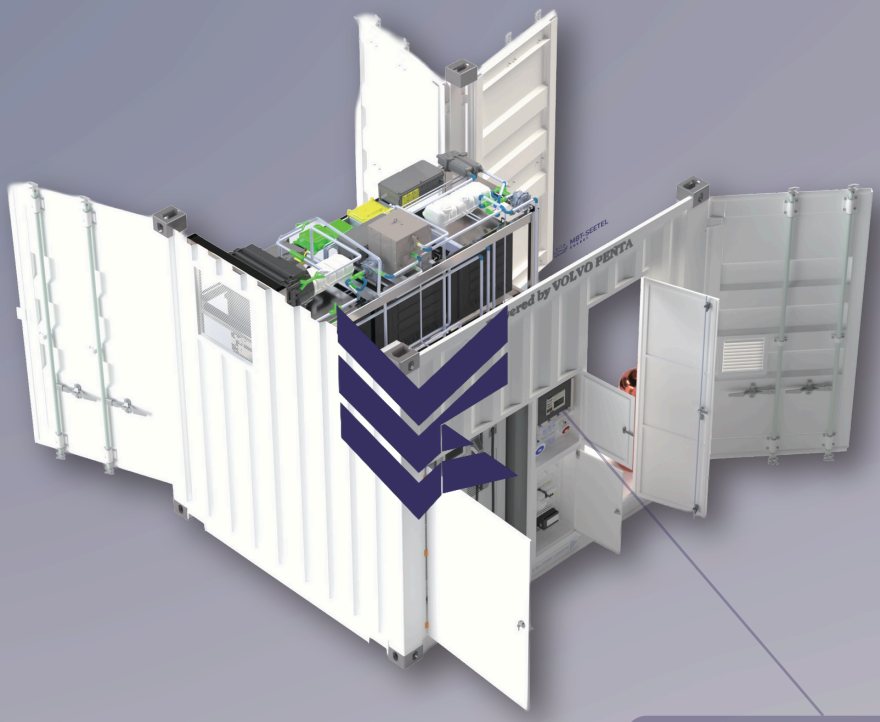
Utilizes smoke, thermal, and gas sensors to detect potential fire risks in real time.

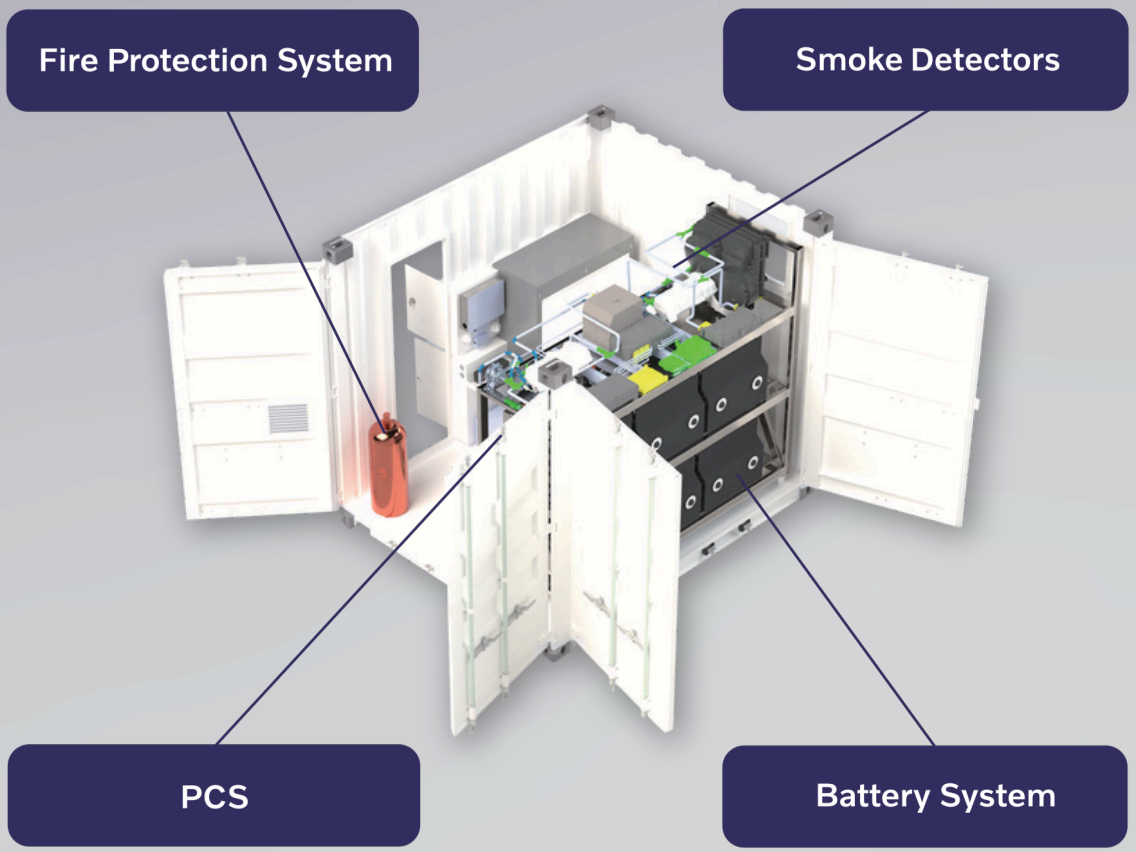
Portable and Plug and Play

It is portable, easy-to-use and can charge everything from Volvo compact electric machines to other electrical equipment on-site.

Smart EMS, Swift Response

Equipped with real-time insights and adaptive learning, EMS accelerates energy forecasting and optimizes dispatch with unmatched precision.


HMI Control Box


Fire Protection System
Smoke Detectors
PCS
Battery System

System Specification	
Battery Chemistry	NCA (Nickel Cobalt Aluminum) – Cylindrical Cell
Total Installed Energy	540 kWh
Rated Capacity	578.76 Ah
System Voltage (Min / Nom / Max)	500 V / 660 V / 750 V
Continuous Charging Rate	0.5 C
Continuous Discharging Rate	1 C
Ambient Operating Temperature	-20°C to + 40°C
Max Operating Altitude	3,000 meters
Cooling System Type	Compressor (Active Cooling Unit)
Fire Suppression System	Aerosol Fire Extinguishers, Heat, Smoke. Li-ion detectors
AC Input Voltage	220 V / 380 V AC, 3-phase, 50–60 Hz ± 15 %
Charging Time	Approx. 7–8 hrs at 90 A, 410 V, 3-phase
Input Plug Type	CEE plug 100A
Dimension (L x W x H)	3000 x 2200 x 2600 mm
Total Weight	5408.7 kg
Charger	
Max Power	180 kW
Number of Chargers	2
Simultaneous Output	Load Balance
Efficiency	> 94 %
Charger Plug Type	CCS2

Notice: This is not a final specification. Some parametric limits are subject to change.

GG Ventures

Of the Carolinas

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