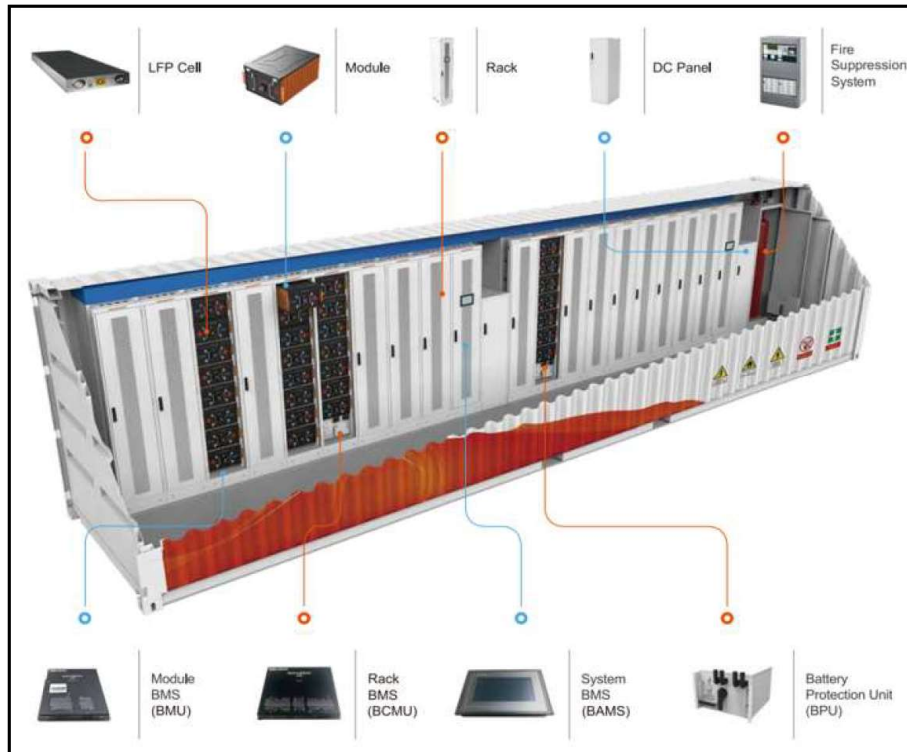

Container ESS Solution

telephone companies
large-scale energy storage system
electric propulsion and hybrid propulsion ship

All-In-One type ESS Container Accessible type

**Cell 3.2V 250Ah
Module 51.2V 250Ah
(16S)**

ESS Container System Configuration



DC System

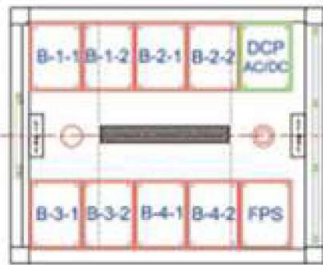
- Cell
- Module
- Rack
- Battery Management System (Module, Rack, System)
- Battery Protection Unit
- Container
- DC Panel
- HVAC System (heating, ventilation, & air conditioning)
- Fire Suppression System

AC System

- PCS (Power Conditioning System)
- KPI for Chosen Country Certificate, Product Type System Cost, Client equipment, etc.

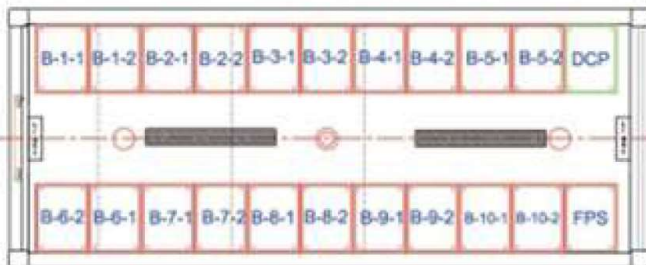
ESS Container Rack Configuration

10ft Container Configuration



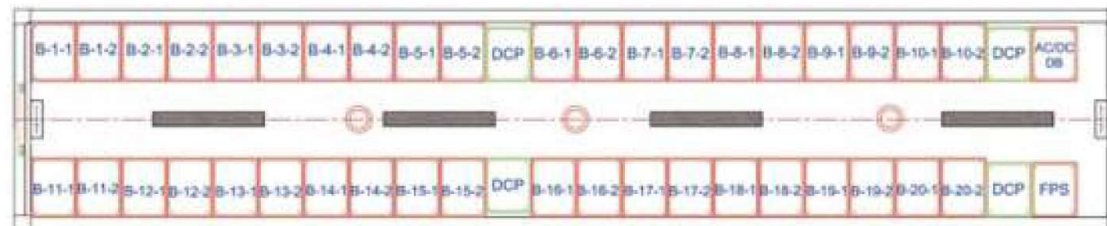
10ft ISO HC Container
External Mounted HVAC
Max Rack Energy 192kWh
Max Container Energy 0.77MWh

20ft Container Configuration



20ft ISO HC Container
External Mounted HVAC
Max Rack Energy 192kWh
Max Container Energy 1.92MWh


40ft Container Configuration




40ft ISO HC Container
External Mounted HVAC
Max Rack Energy 192kWh
Max Container Energy 3.84MWh

System Specifications

■ Module Specifications

Item	Spec.	Reference
Type (0.5C)	51.2NESP250	
Cell Capacity (Ah)	250	
Energy (KWh)	12.8	
Nominal Volt (V)	51.2	
Minimum Volt (V)	44.8	
Maximum Volt (V)	57.6	
Dimension (W x D x H, mm)	415 × 600 × 265	
Weight (kg)	94	

■ Rack Specifications

Item	Spec.	Reference
Type	512125192	
Module(ea)	15	
Cell Capacity (Ah)	250	
Energy (KWh)	192	
Nominal Volt (V)	768	
Minimum Volt (V)	672	
Maximum Volt (V)	864	
Dimension (W x D x H, mm)	500 × 650 × 2400 (2P)	
Weight (kg)	1798	

System Specifications

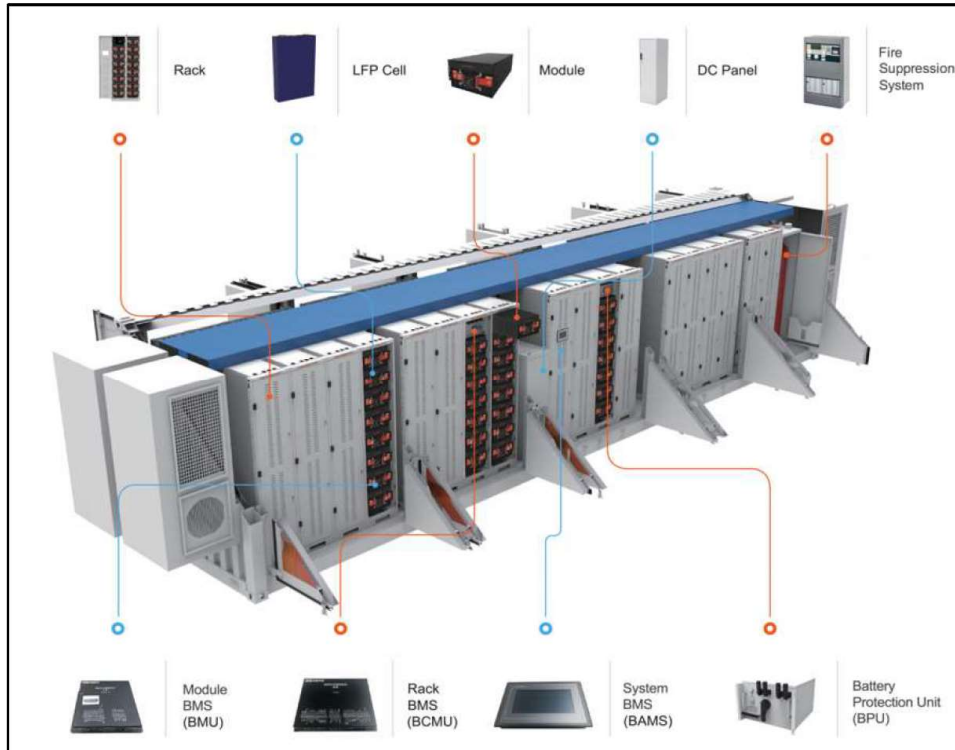
■ Environmental characteristics

Item		Spec.
Environmental Conditions	Operating Temperature (°C)	-40 to 55
	Storage Temperature (°C)	10 to 30
Realtive Humidity	Maximum Humidity (%)	Up to 95
Altitude	Above Sea Level (m)	2000/600ft
SOC	Recommende Range (%)	5~95

All-In-One type ESS Container non-entry type

**Cell 3.2V 250Ah
Module 76.8V 250Ah
(24S)**

ESS Container System Configuration



DC System

- Cell
- Module
- Rack
- Battery Management System (Module, Rack, System)
- Battery Protection Unit
- Container
- DC Panel
- HVAC System (heating, ventilation, & air conditioning)
- Fire Suppression System

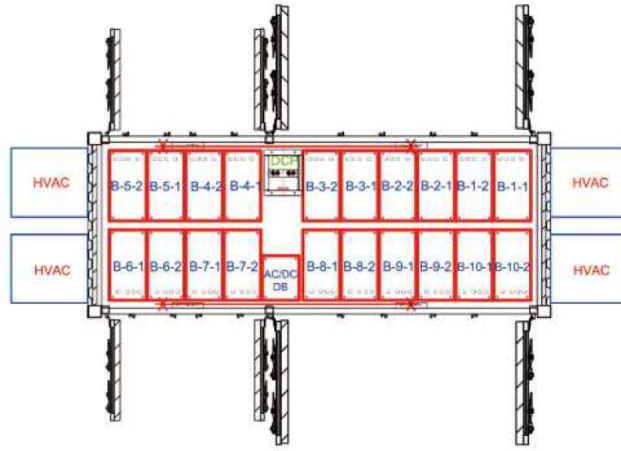
AC System

- PCS (Power Conditioning System)
- KPI for Chosen Country Certificate, Product Type System Cost, Client equipment, etc.



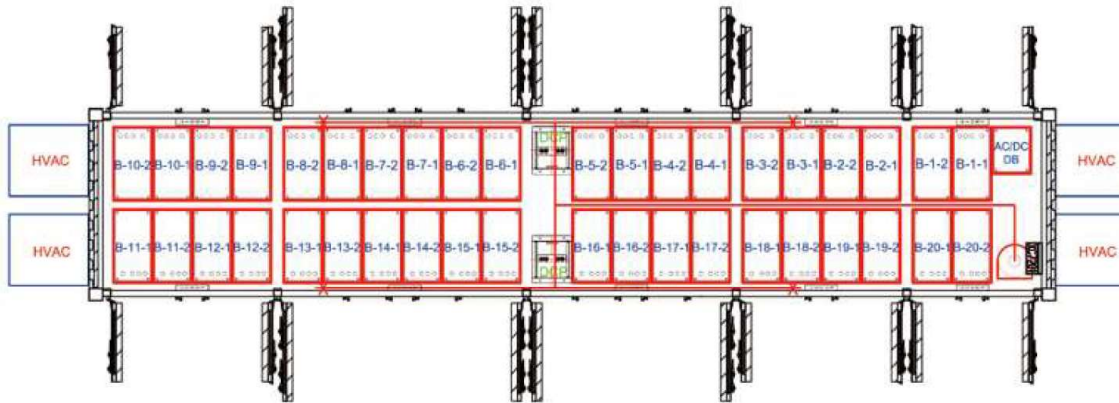
ESS Container Rack Configuration

20ft Container Configuration



20ft ISO HC Container
External Mounted HVAC
Max Rack Energy 288kWh
Max Container Energy 2.88MWh
Rated Power 1.44MW


40ft Container Configuration




40ft ISO HC Container
External Mounted HVAC
Max Rack Energy 288kWh
Max Container Energy 5.76MWh
Rated Power 2.88MW

System Specifications

■ Module Specifications

Item	Module	Reference
Type (0.5C)	76.8NESP250	
Cell Capacity (Ah)	250	
Energy (KWh)	19.2	
Nominal Volt (V)	76.8	
Minimum Volt (V)	67.2	
Maximum Volt (V)	86.4	
Dimension (W x D x H, mm)	400 × 884 × 265	
Weight (kg)	147	

■ Rack Specifications

Item	Type 3	Reference
Type	768125288	
Module(ea)	15	
Cell Capacity (Ah)	250	
Energy (KWh)	288	
Nominal Volt (V)	1152	
Minimum Volt (V)	1008	
Maximum Volt (V)	1296	
Dimension (W x D x H, mm)	500 × 938 × 2400 (2P)	
Weight (kg)	2520	

System Specifications

■ Environmental characteristics

Item		Spec.
Environmental Conditions	Operating Temperature (°C)	-40 to 55
	Storage Temperature (°C)	10 to 30
Realtive Humidity	Maximum Humidity (%)	Up to 95
Altitude	Above Sea Level (m)	2000/600ft
SOC	Recommende Range (%)	5~95