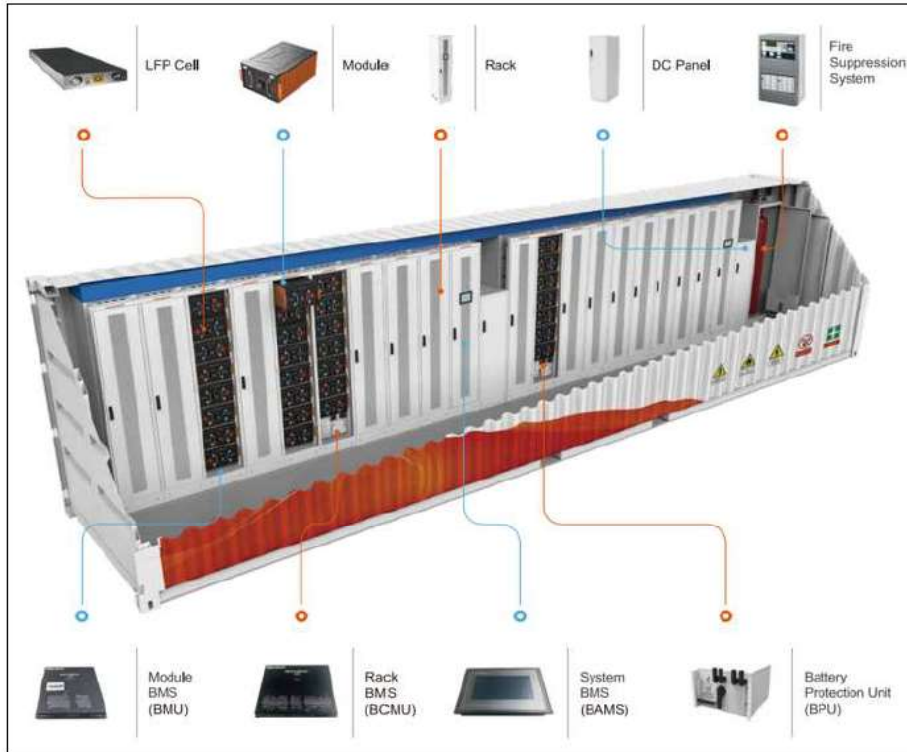

Container ESS Solution

전화국사
대형 기지국
대규모 에너지 저장 장치(RESS)
전기 추진과 하이브리드 추진선

All-In-One type ESS Container
출입 가능형

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

ESS Container 시스템 구성



DC System

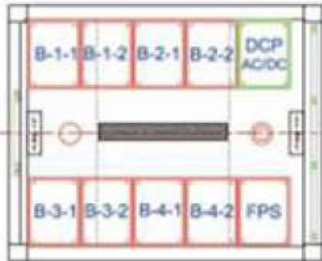
- Cell
- Module
- Rack
- Battery Management System (Module, Rack, System)
- Battery Protection Unit
- Container
- DC Panel
- HVAC System (heating, ventilation, & air conditioning)
- Fire Suppression System

AC System

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

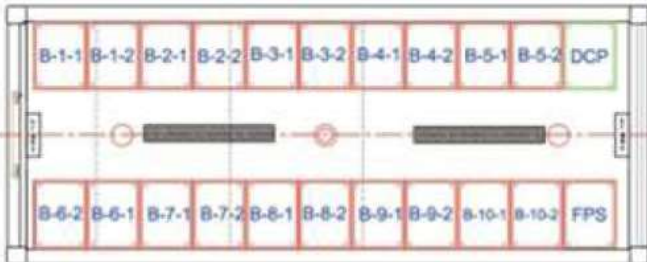
ESS Container Rack 구성

10ft Container 구성



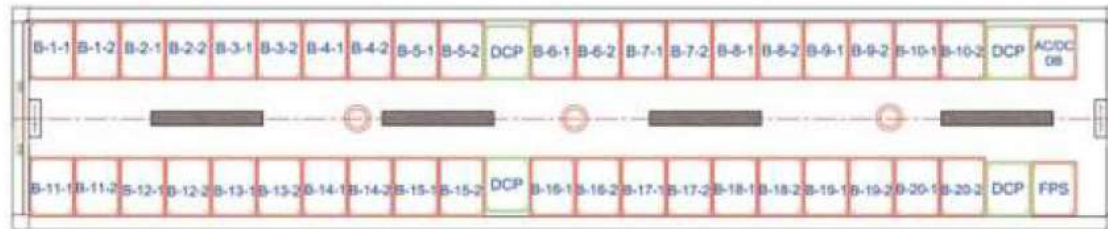
10ft ISO HC Container
 External Mounted HVAC
 Max Rack Energy 192kWh
 Max Container Energy 0.77MWh

20ft Container 구성



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

40ft Container 구성



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

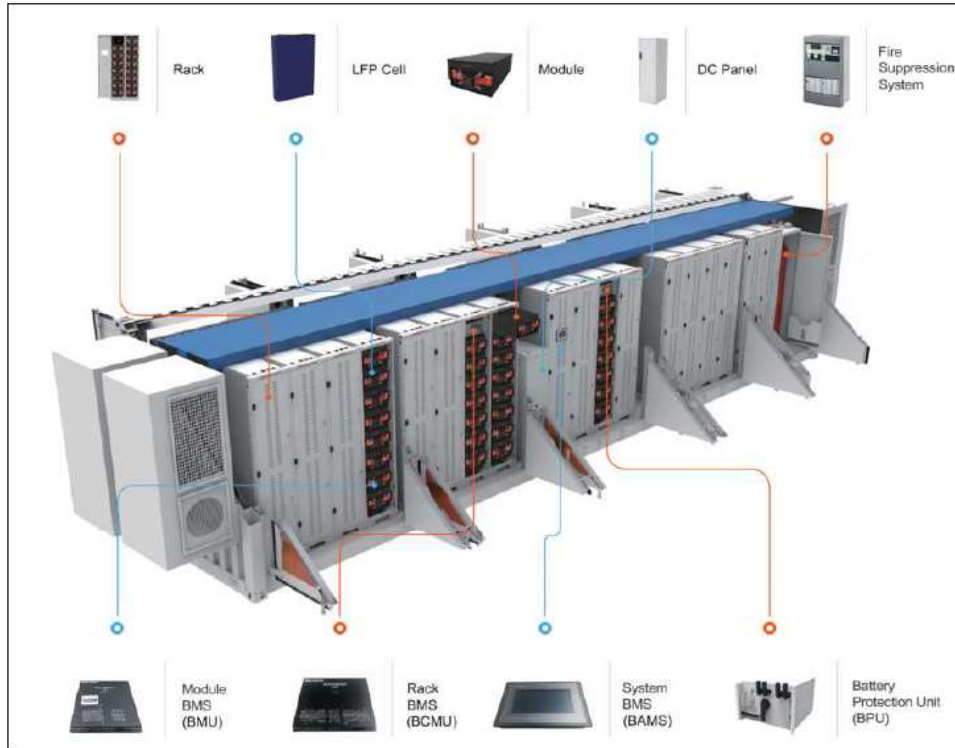
■ Environmental characteristics

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

All-In-One type ESS Container
출입 불가능형

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

ESS Container 시스템 구성



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

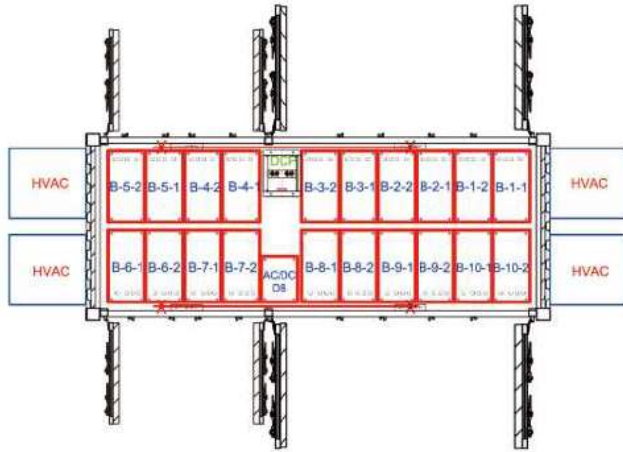
AC System

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



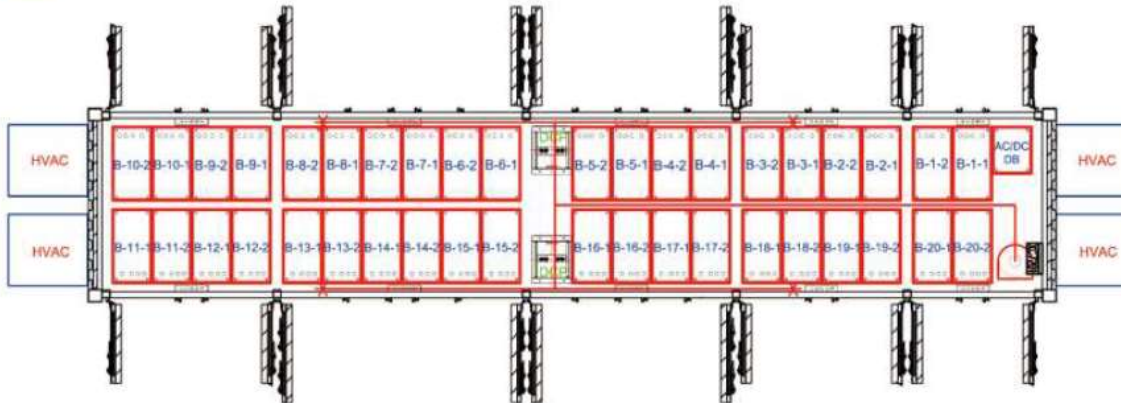
ESS Container Rack 구성

20ft Container 구성



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

40ft Container 구성



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
Relative Humidity	Maximum Humidity (%)	Up to 95
Altitude	Above Sea Level (m)	2000/600ft
SOC	Recommended Range (%)	5~95