



500kW/1MWh ESS - Energy Storage System



- Square aluminum shell lithium iron phosphate battery ;
- Specifications:
3.2V280Ah

Cell :
LF280K



- 48V280Ah , consist with 1P15S LF280K ;
- Built in BMU ;
- 0.5CC/0.5CP ;
- Air force cooling

PACK :
BP1-15-48/280



- 720V280Ah , consist 15 pcs 1P15S LF280K ;
- Configure HV box (built in BCMU Circuit breaker etc.) ;
- 2 rows of 8-layer battery rack

RACK :
BR-15-720-280-F



- 20 foot Container consist 5 pcs 1P225S ;
- 5 racks confluence in 1 PCS.

Energy storage container :
ESS-1008

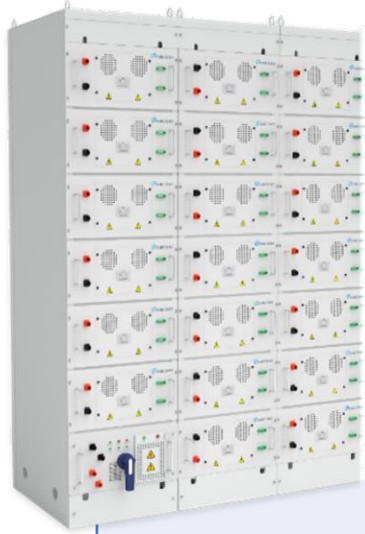




System type: ESS- 1008



- Battery type : LF280K
- Configuration: 5P225S
- Battery capacity (BOL)/kWh: 1008
- Battery voltage range/V: 630-821.25
- Charge/Discharge Current: Max.≤0.5C
- BMS communication interfaces: CAN
- Thermal Management: Air forced cooling
- Dimension(W*D*H)/m: 6058×2438×2896
- Weight:~18 to
- Operation temperature/°C Charge: 0~50
- Operation temperature/°C Discharge :-20~50
- Relative humidity: 5 ~ 95 % (non-condensing)
- Degree of protection: IP54
- Fire suppression system: Novec 1230 fire extinguishment system



Rack Parameter:

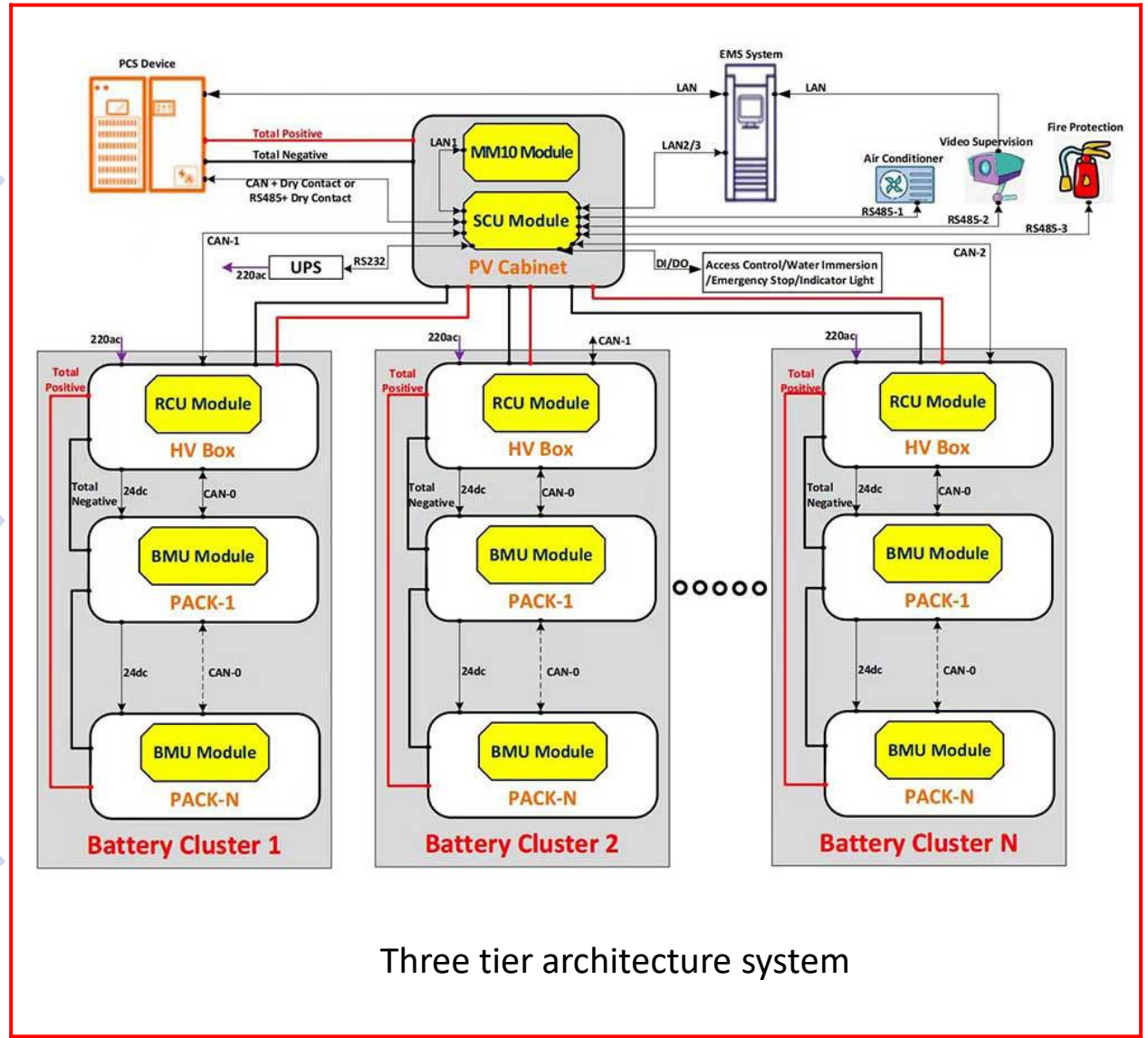
- Rated Energy/kWh: 201.6
Configuration: 1P225S
Rated Voltage/V: 720
- Voltage Range/V: 630-821.25
Weight/kg: 1850
Dimension(W*D*H)/mm: 1176*655*2400
Operation temperature/°C: 0-50



Pack Parameter:

- Rated Energy/kWh: 13.44
Configuration: 1P15S
Rated Voltage/V: 48
- Voltage Range/V: 42-54.75
Weight/kg: 105
Dimension(W*D*H)/mm: 510*647*260
Operation temperature/°C: 0-50

- Information collection (1000V Level):**
 - Cell/system voltage
 - System current
 - Temperature
 - insulation detection
- State management:**
 - SOC/SOH estimation
 - Communication
 - Data storage
- System control:**
 - Charge/discharge
 - Active/passive balance
 - Fault detection and protection
 - Thermal management



Three tier architecture system

DC/Battery:

- DC input voltage: 600~900V
- DC input current: 0~880A
- Battery branch: 1/2/4/8

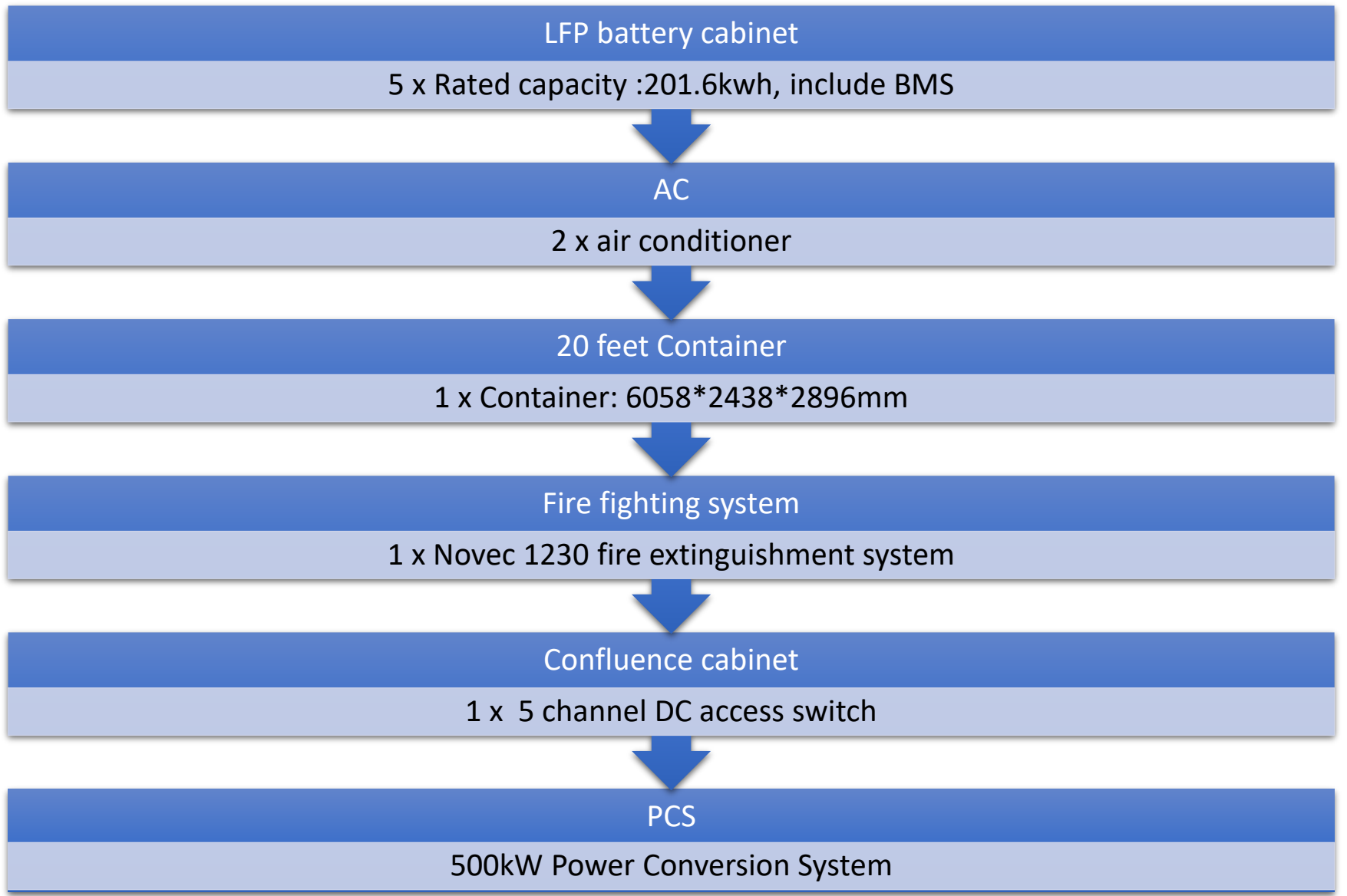
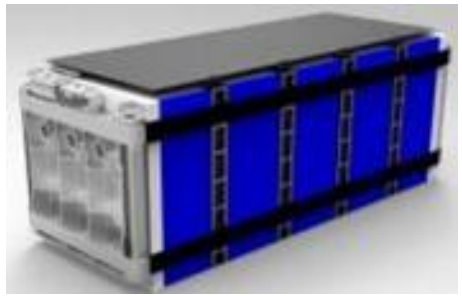
AC:

HV AC rate voltage: 380V (- 15%~15%)
Power output rating: 550kW
Maximum efficiency: 98.3%
Isolation mode: Power frequency isolation
Wiring mode: Three phase three wire
Frequency range: 50Hz/60Hz (-2.5~1.5)

Physical:

Cooling: Forced air cooling
Enclosure: IP20
Max elevation: 3000m
Operating ambient temperature: -20°C to 60°C (De-rating over 50°C)
Humidity: 0~95% (No condensing)
Size (W×H×D): 1100×2160×800mm
Weight: 600kg





Begin the journey with us!

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