

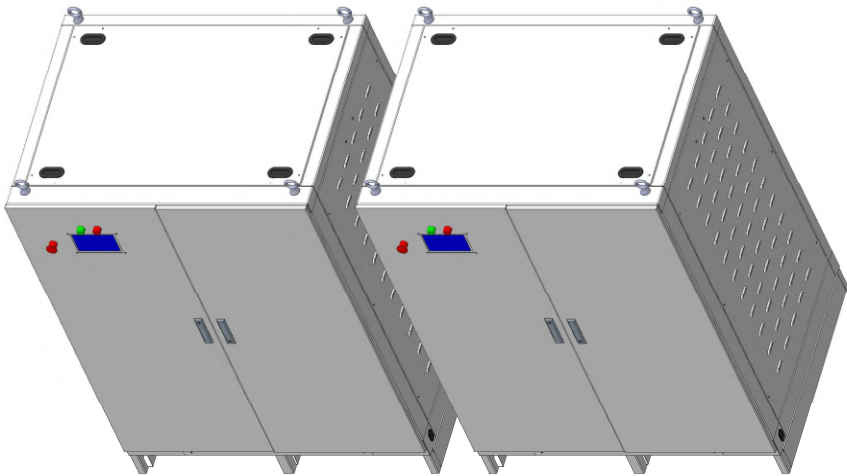


ANERN INDUSTRY GROUP LIMITED

- **384V-280AH *2 (215KWh) Cabinet type High-Voltage Lithium Battery Power Storage System**
- **Specification & Datasheet**
- **Issuing Date: 2023-12-06**

I Specification

1. The system is composed of 16 battery modules + 2 PDU + 2 Cabinet
2. System Capacity: 384V-107.52KWH*2
3. Single Cell: 3.2V 280AH
4. Battery Module: 48V 13.44KWH
5. Battery Module Size: W442*L700*H222
6. Cabinet Size: L1130*W860*H1485



II System Configuration

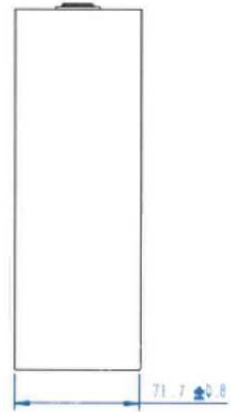
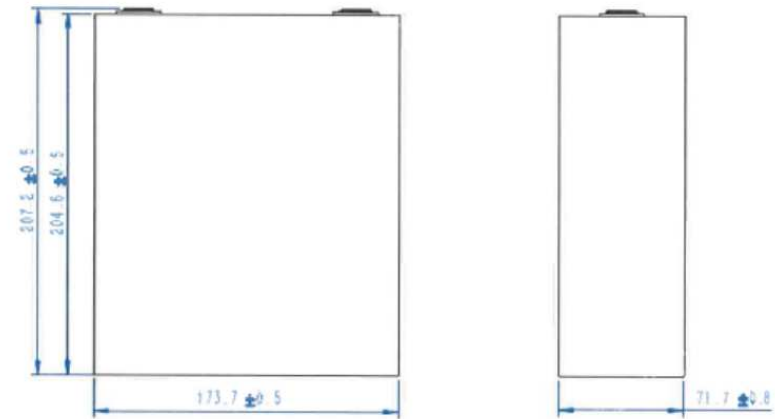
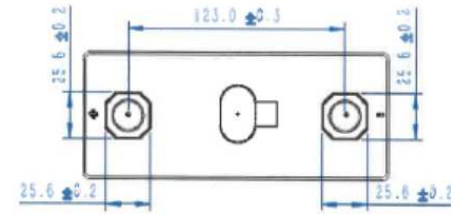
S/N	Parts Name	Quantity	Remark
1	Caster	2	
2	Battery module box	16	
3	PDU box	2	
4	Connectors	44	
5	Communication port	44	

III Process Requirement:

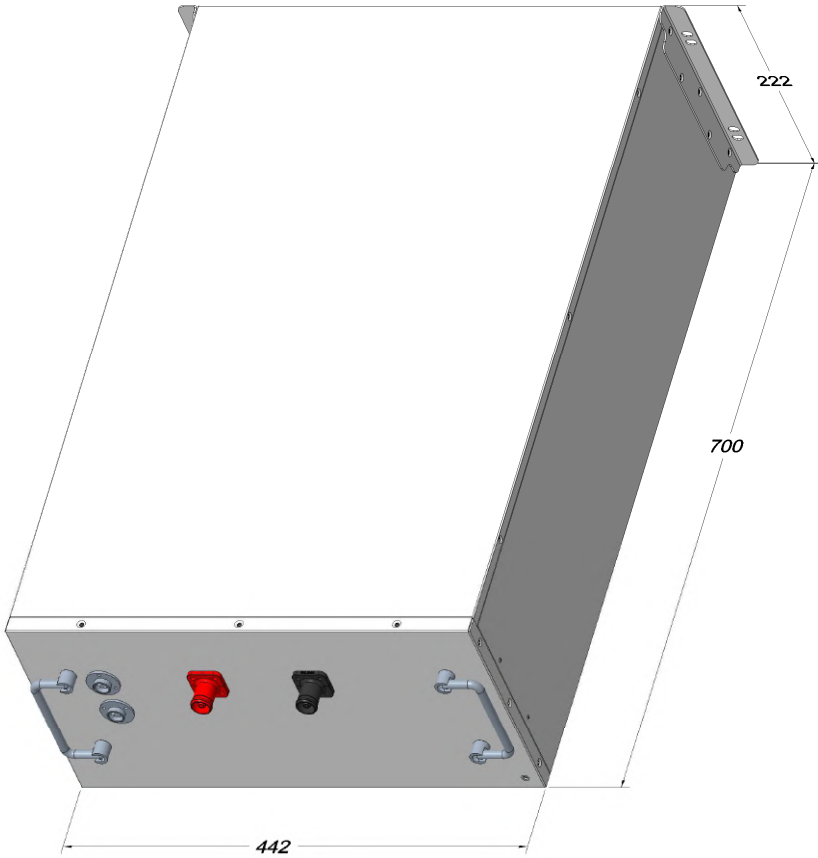
1. Material: SPCC, thickness as per drawing
 2. Surface Treatment: Spray white sand paint
- Remark: Only for: Shell + Connector + Communication port

IV Single Cell

Parameters	Specification	Condition
Rated Capacity	280Ah	1/3C discharge current 25±2°C
Rated Voltage	3.22V	1/3C discharge current 25±2°C
Min. Capacity	280Ah	1C discharge current 25±2°C
Operating Voltage	2.5V-3.65V/2.0V-3.65V	T>0°C / T≤0°C
Cell Internal Resistance (1KHz)	≤0.25mΩ	New cell status, 30%SOC
Standard Charge Current	100.7A	25±2°C
Standard Discharge Current	100.7A	25±2°C
Operating Temperature (Charge)	0-55°C	
Operating Temperature (Discharge)	-30-55°C	

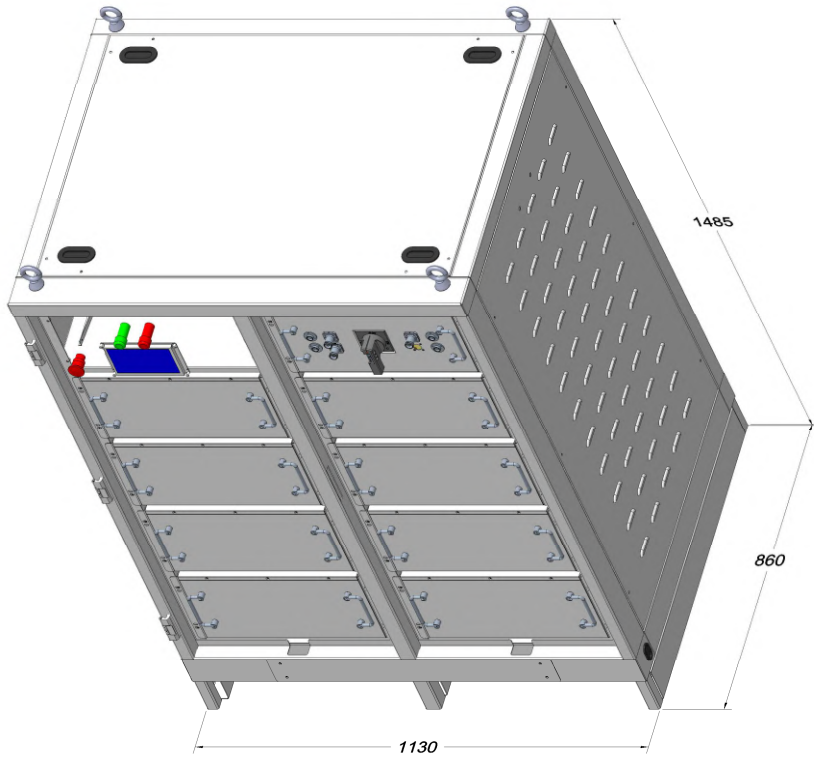


V Standard Battery Module



S/N	Item Name	Parameters
1	Rated Capacity	280AH
2	Rated Voltage	48V
3	Rated Power Storage	13.44KWH
4	Standard Charging	CC-CV mode
		Current 56A (0.2C)
		Terminating Current 14A (0.05C)
5	Standard Discharging	CC mode
		Rated discharge current 56A
		Max discharge current 140A
		Terminating voltage 40V
6	Max Discharge Power	6.72KW (0.5CP)
7	Weight	100KG
8	Operating Temperature Range	0-40 degrees

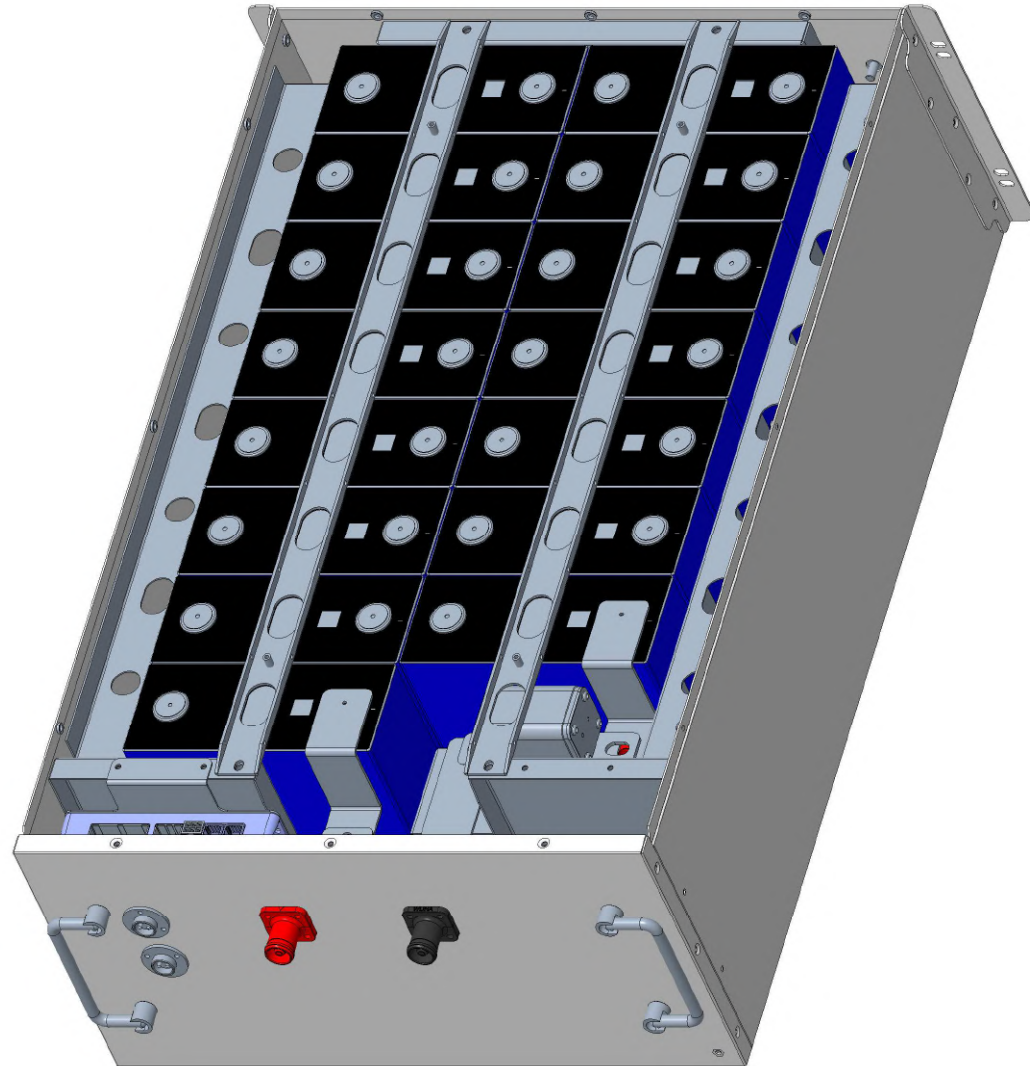
VI Cabinet Specification



S/N	Item Name	Parameters
1	Rated Capacity	280AH
2	Rated Voltage	384V
3	Charge Voltage	432V
4	Rated Power Storage	107.52KWH
5	Standard Charging	CC-CV mode
		Current 56A (0.2C)
		Terminating Current 14A (0.05C)
6	Standard Discharging	CC mode
		Rated discharge current 56A
		Max discharge current 140A
		Terminating voltage 300V
7	Max Discharge Power	50KW (0.5CP)
8	Weight	1052KG
9	Operating Temperature Range	0-40 degrees
10	Communication Way	CAN

VII Slave Control Battery Box

Layout Diagram of
15 series/1 parallel battery modules:



VIII Main Control PDU

