

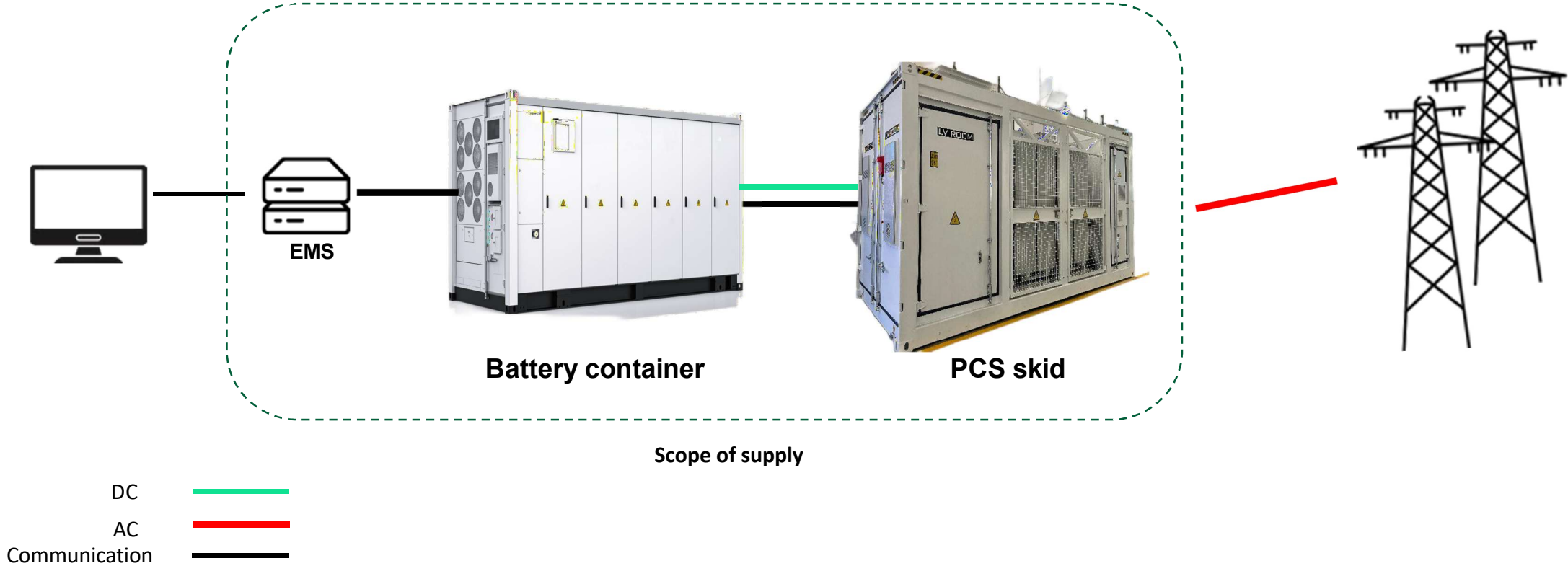
MOHANA Renewcare



1.25 MW/5.016 MWh BESS Product Specifications

Project Supply Scope

S.No.	Items	Specifications	Qty	Unit	Remark
1	20 Feet Battery container	5.016 MWh	1	No.	Each Battery Unit consists of 1.1 ~ 1.4 W*H*D: 6058*2896*2438mm
1.1	Li-ion Battery System	5.016 MWh, 12*(1P104S*4) , LFP	1	No.	Includes 4*1P104S modules, (BMU), Cluster Control Box (includes BC)
1.2	Liquid-cooled cabin	Liquid-cooled units with a refrigerating capacity of 60 KW	1	No.	
1.3	Fire Suppression System (FSS)	Gas fire protection + intelligent warning system + combustible gas detection + exhaust Air system, module- level fire protection, water fire protection (optional)	1	No.	
1.4	Electric cabinets	-	1	No.	Includes converging system, control system, power distribution system
2	PCS skid	Rated power is 1.25 MW	1	No.	Each PCS skid consists of 2.1 ~ 2.2 W*H*D: 6058*2896*2438mm
2.1	PCS	1.25 MW	1	No.	
2.2	Transformer	Oil-type transformer,1.25 MVA, 0.69/10 KV	1	No.	Voltage ratings can be selected as per customer requirement
3	EMS		1	No.	



Container Specification



➤ **YJ1C-5016/2h-HL-FN Liquid-cooling ESS**

An integrated high energy density system that includes a Battery container system, a Battery Management System (BMS), a Fire suppression system (FSS), a liquid cooled thermal management system and an auxiliary power supply box.

No.	Performance index	Parameter
1	Product model	YJ1C-5016/2h-HL-FN
2	Product type	LFP Container
3	Configuration	12*(1P104S*4)
4	Rated capacity	5.016 MWh
5	Rated Voltage	1331.2V DC
6	Voltage range	1164.8~1497.6V DC
7	Auxiliary power supply (voltage range)	400V AC±5% , 50Hz
8	Weight	≈42t
9	Operating temperature	-30°C~+55°C
10	Altitude	≤4000m (>2000m derating)
11	Dimension	6058*2438*2896mm
12	IP level	IP55

PCS Skid Specification

- With 24 hours insulation test to ensure system safety.
- Supports smooth switching and "black start" between on & off-grid.
- Supports IEC 61850 protocol.
- Supports VSG, PQ, VF, etc., with the functions of high & low voltage ride-through, frequency ride-through.
- Supports intelligent wave recording and local touch screen monitoring for locating events and faults instantly.
- Supports parallel connection of multiple products, convenient for capacity expansion, with battery charging and discharging management function, suitable for a variety of batteries.



S No.	Performance index	Parameter
PCS		
1	Operating Voltage Range	1000-1500V DC
2	Operating Current Range	≤1403A
3	Rated AC Power	1.25 MW
4	Rated Operating Voltage	690V AC
5	Rated Frequency	50/60Hz
6	Power Factor Adjustable Range	-1~+1
7	Protection level	IP55
Transformer		
1	Type	Oil-type
2	Rate Capacity	1.25 MVA
3	Voltage Ratio	0.69/10 KV
PCS Skid		
1	Dimension(W*H*D)	6058*2896*2438mm
2	Weight	25T

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