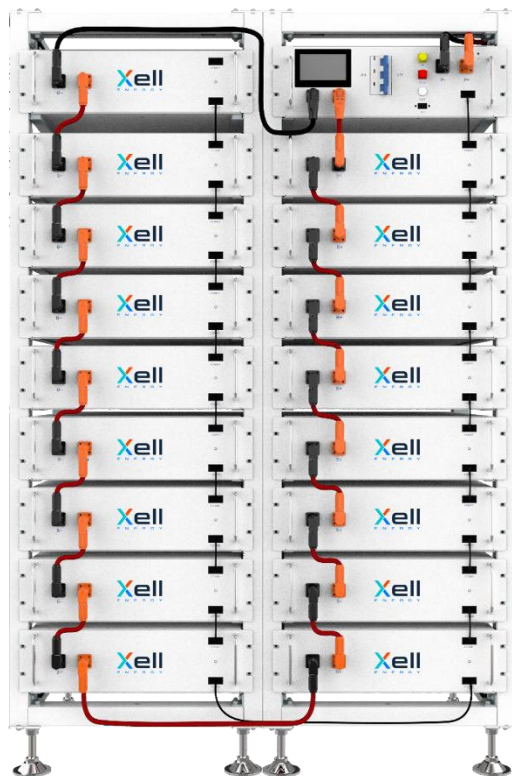


NEO-Modula



Modular ESS for EU Commercial Application



Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance. Support USB upgrade, wifi upgrade(optional), remote upgrade (Compatible with Sol-Ark inverter).

Safe and reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

Intelligent BMS

It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

Eco-friendly

The whole module is non-toxic, non-polluting and environmentally friendly.

Flexible configuration

Multiple battery modules can be parallel for expanding capacity and power.

Wide temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

Model

SEB-M PRO

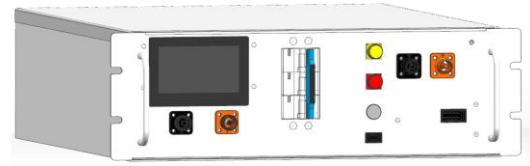
Main Parameter

Cell Chemistry		LiFePO ₄			
Module Energy (kWh)		5.12			
Module Nominal Voltage (V)		51.2			
Module Capacity (Ah)		100			
Battery Module Number		SEB-M25 PRO	SEB-M40 PRO	SEB-M60 PRO	SEB-M85 PRO
Battery Module Qty In Series (Optional)		5 (Min)	8	12	17 (Max)
System Nominal Voltage (V)		256	409.6	614.4	870.4
System Operating Voltage (V)		220~292	352~467.2	528~700.8	748~992.8
System Energy (kWh)		25.6	40.96	61.44	87.04
System Usable Energy (kWh)		23.04	36.86	55.3	78.33
Rated DC Power		25.6	40.96	55.3	87.04
Charge/Discharge Current (A)	Recommend	50			
	Nominal	100			
	Peak Discharge (2 mins, 25°C)	125			
Working Temperature (°C)		Charge: 0~55/Discharge: -20~55			
Status Indicator		Yellow: Battery High Voltage Power On Red: Battery System Alarm			
Communication Port		CAN2.0/ RS485			
Humidity		5%~85%RH			
Altitude		≤3500m			
IP Rating of Enclosure		IP20			
Dimension (W/D/H,mm)		530*602*1629		530*602*2219	1060*602*1629
Weight Approximate (kg)		285	420	610	866
Installation Location		Rack Mounting			
Storage Temperature (°C)		0~35			
Recommend Depth of Discharge		90%			
Cycle Life		25±2°C, 0.5C/0.5C, EOL70%≥6000			
Warranty		Up to 15 years			
Certification		CE/IEC62619 /VDE2510-50/ UN38.3			

System Components

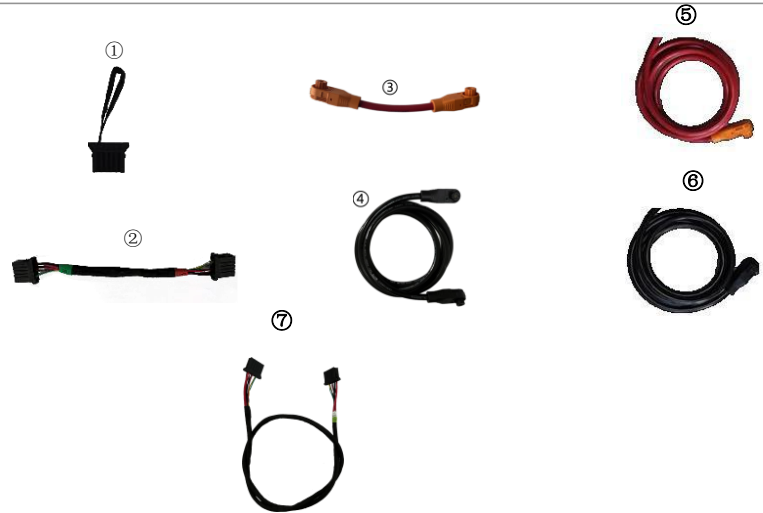
Model	Description
SEB-M-PDU-2	High Voltage Battery cluster control box conforming to European or British Standards

Operating Voltage	200~1000Vdc
Nominal Charge/Discharge Current	100A
Max Charge/Discharge Current	120A
DC Input Rating	12±2%V/4.15A
Operating Temperature Range	-20~65°C
Ingress Protection	IP20
Dimension (W/D/H)	440*570*150mm
Weight Approximate	19kg



High voltage box Standard configuration:

- ① 120 ohm terminal resistance
- ② 250mm communication cable
- ③ 200mm power cable
- ④ 2.1m power cable
- ⑤ EPCable2.0
(Standard 2-meter power cable connected to the positive pole of the external PCS)
- ⑥ ENCable2.0
(Standard 2-meter power cable connected to the negative pole of the external PCS)
- ⑦ 1000mm communication cable between two battery racks
- ⑧ 1000mm power cable between the two battery racks



SEB-M-PACK5.1	5.12 kwh battery module
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Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	100Ah
Rated Energy	5.12kWh
Nominal Charge/Discharge Current	100A
Peak Discharge Current	120A
Charge Temperature	0~55°C
Discharge Temperature	-20°C~55°C
Storage Temperature	0°C~35°C
Ingress Protection	IP20
Dimension (W/D/H)	440*570*133mm
Weight Approximate	45kg



Battery module Standard configuration:

- ① 160mm
- ② 200mm power cable



System Components

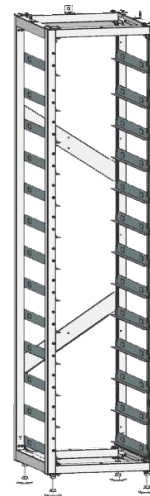
Model	Description
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ECOM Cable2.0(Optional)	Standard 2-meter communication cable connected to the external device
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3U-HRACK(Optional)	Standard 19inch rack, can install 12 pcs batteries and 1 pcs High Voltage Battery cluster control box
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Dimension (W/D/H)	530*602*2219mm
Weight Approximate	51kg



3U-LRACK(Optional)	Standard 19inch rack, can install 8 pcs batteries and 1 pcs High Voltage Battery cluster control box
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Dimension (W/D/H)	530*602*1629mm
Weight Approximate	41kg

