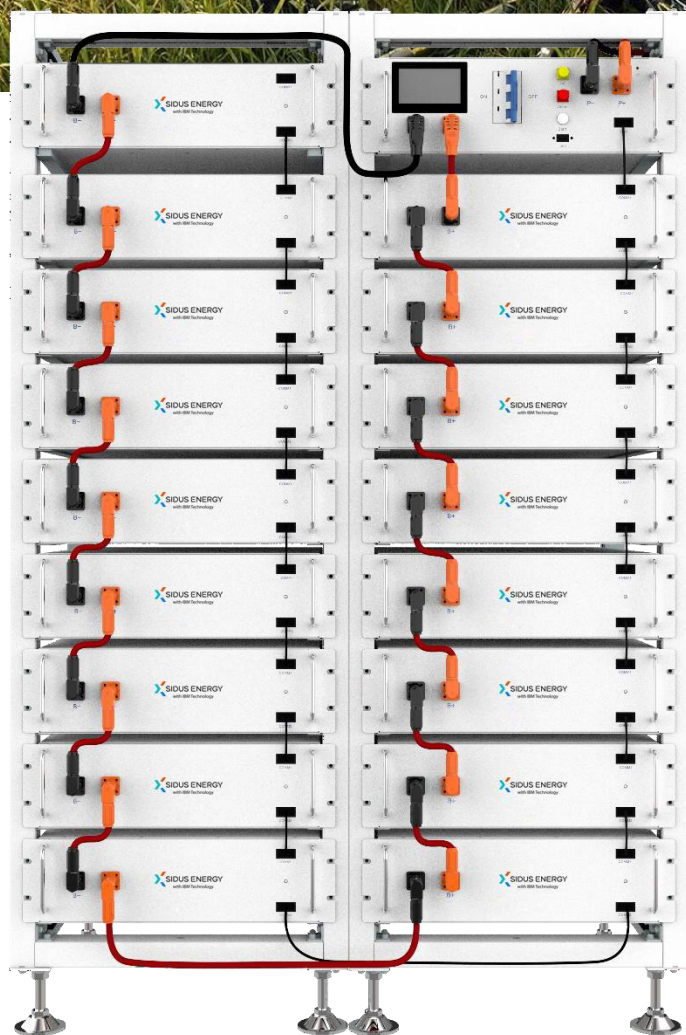
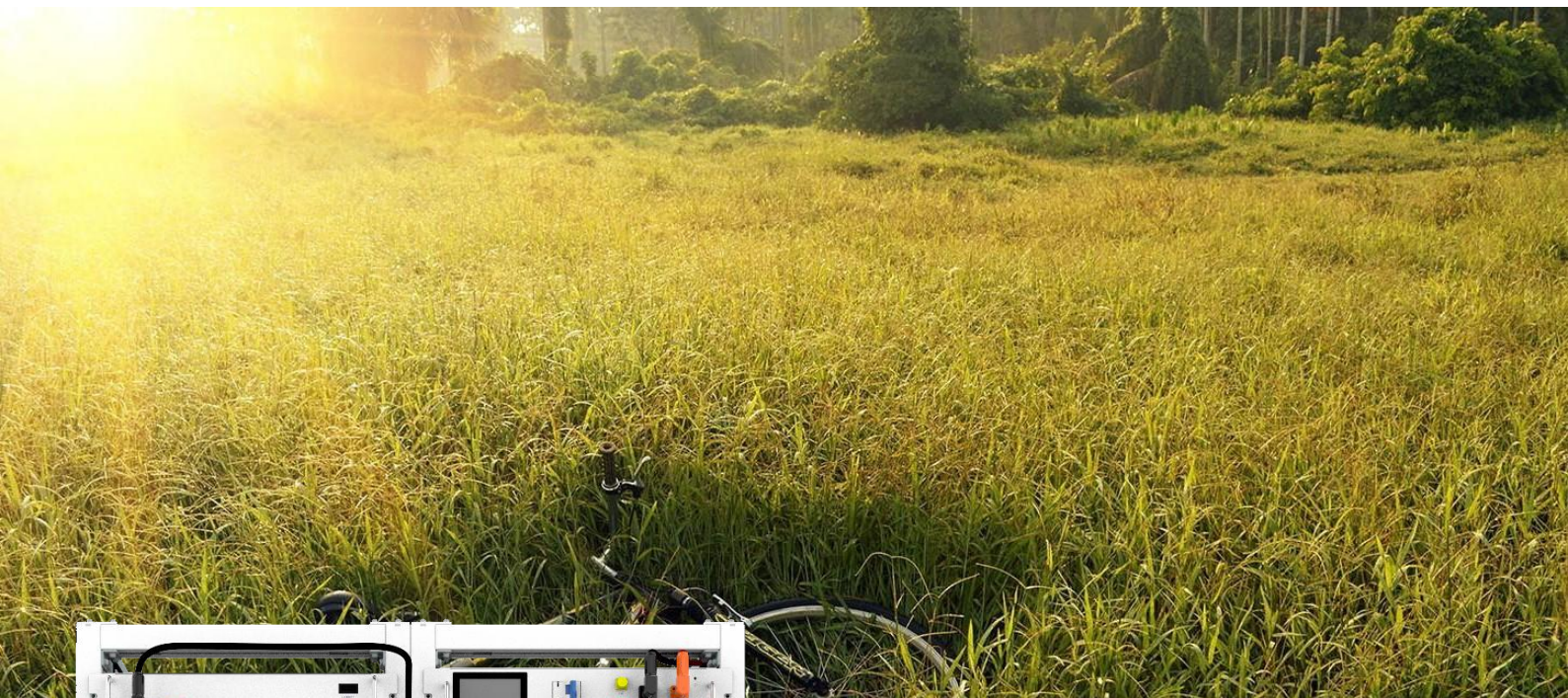


NEO-Modula

Modular ESS for EU Commercial Application



SEB-M PRO

◆ Convenient

Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.

◆ 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 in parallel for expanding capacity and power. Support USB upgrade, wifi upgrade(optional), remote up grade(Compatible with Deye inverter).

◆ Wide temperature

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

Technical Data

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) ¹		23.04	36.86	55.3	78.33
Rated DC Power		25.6	40.96	55.3	87.04
Charge/Discharge ² Current (A)	Recommend	50			
	Nominal	100			
	Peak Discharge (2 mins, 25℃)	125			
Working Temperature (℃)		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 (℃)		0~35			
Recommend Depth of Discharge		90%			
Cycle Life		25±2℃,0.5C/0.5C, EOL70%≥6000			
Warranty ³		Up to 15 years			
Certification		CE/IEC62619 /VDE2510-50/ UN38.3			

1. DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2. The current is affected by temperature and SOC.

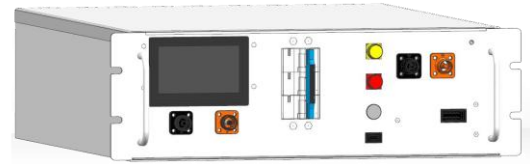
3. The warranty is due whichever reached first of warranty period or life cycle power.

4. Made in China.

System Components

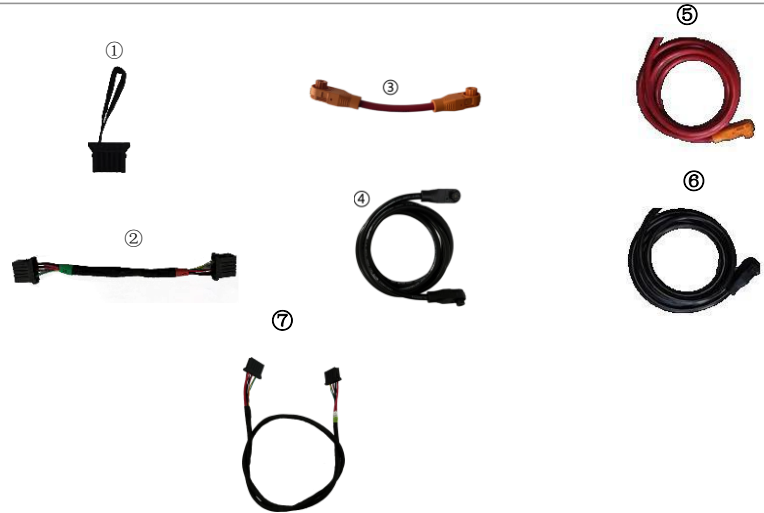
Model	Description
SEB-M-PDU-2	High Voltage Battery cluster control box conforming to European or British Standards

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



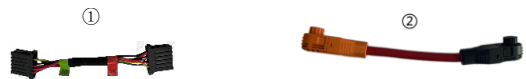
SEB-M-PACK5.1	5.12 kwh battery module
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Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	100Ah
Rated Energy	5.12kWh
Nominal Charge/Discharge Current	100A
Peak.Discharge Current	120A
Charge Temperature	0~55°C
Discharge Temperature	-20°C~55°C
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

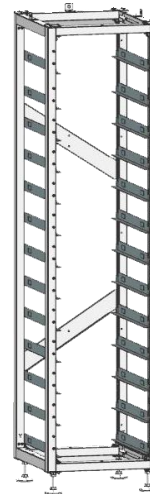


3U-HRACK(Optional)

Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box

Dimension (W/D/H)
Weight Approximate

530*602*2219mm
51kg

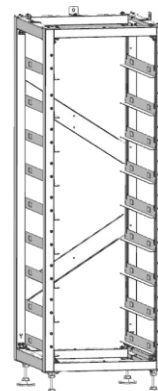


3U-LRACK(Optional)

Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box

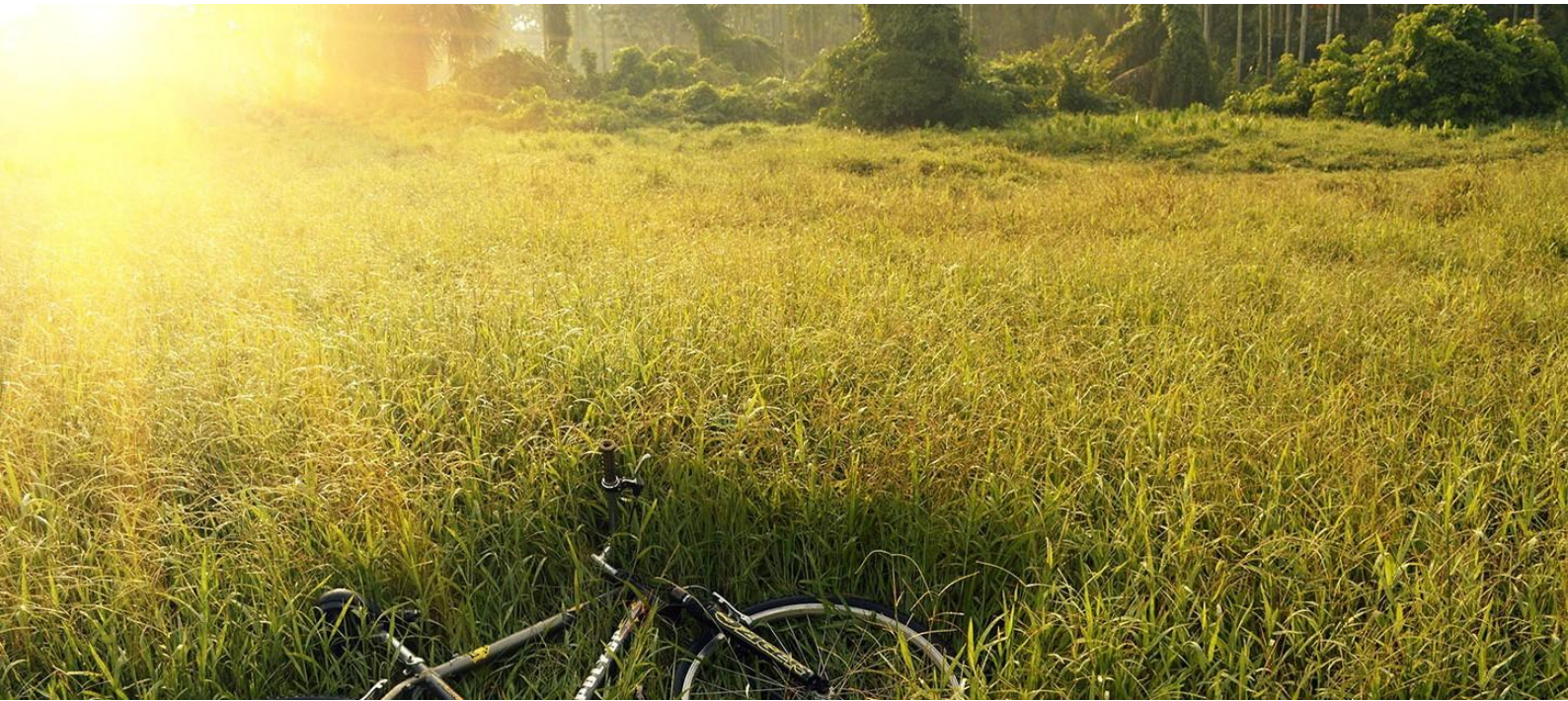
Dimension (W/D/H)
Weight Approximate

530*602*1629mm
41kg



NEO-Modula

Modular ESS for US Commercial Application



SEB-ML

SEB-MH

◆ 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 in 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.

Technical Data

Model

SEB-ML

Main Parameter

Cell Chemistry		LiFePO4
Module Energy (kWh)		5.12
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		100
Battery Module Qty In Series (Optional)		6
System Nominal Voltage (V)		307.2
System Operating Voltage (V)		240~350.4
System Energy (kWh)		61.44
System Usable Energy (kWh) ¹		55.29
Charge/Discharge ² Current (A)	Recommend	100
	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		≤2000m
IP Rating of Enclosure		IP20
Dimension (W/D/H,mm)		589*590*2240
Weight Approximate (kg)		628
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 ³		Up to 15 years
Certification		UL1973 /UL9540A/UN38.3

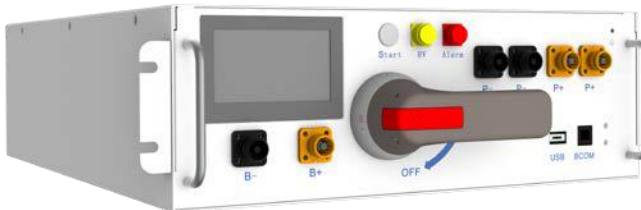
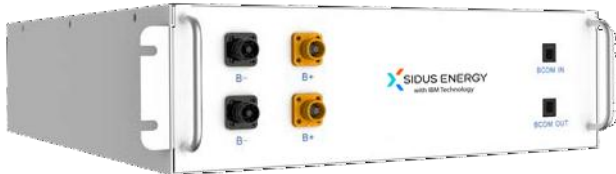

1. DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due to whichever it reached first of warranty period or life cycle power.

Technical Data

Model		SEB-MH
Main Parameter		
Cell Chemistry		LiFePO4
Module Energy (kWh)		5.12
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		100
Battery Module Qty In Series (Optional)		12
System Nominal Voltage (V)		614.4
System Operating Voltage (V)		499.2~700.8
System Energy (kWh)		61.44
System Usable Energy (kWh) ¹		55.29
Charge/Discharge ² 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		≤2000m
IP Rating of Enclosure		IP20
Dimension (W/D/H,mm)		589*590*2240
Weight Approximate (kg)		628
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 ³		Up to 15 years
Certification		UL1973 /UL9540A/UN38.3

1. DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

System Components

Model	Description	
SEB-M-PDU-NA	High Voltage Battery cluster control box conforming to North American Standard	
Operating Voltage	120 ~ 750Vdc	
Nominal Charge/Discharge Current	100A	
Max.Charge/Discharge Current	125A	
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	17kg	
SEB-MM5.1-D	5.12 kwh battery module	
Battery Type	LiFePO4(LFP)	
Nominal Voltage	51.2Vdc	
Rated Capacity	100Ah	
Rated Energy	5.12kWh	
Nominal Charge/Discharge Current	100A	
Peak.Discharge Current	125A	
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	44kg	
3U-HCabinet(Optional)	Standard 19inch rack can install 12 pcs batteries and 1 pcs High Voltage Battery cluster control box	
Dimension (W/D/H)	530*660*2286mm	
Weight Approximate	80kg	
		

System Components

Model	Description
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ECOM Cable2.0(Optional)

Standard 2-meter communication cable connected to the external device

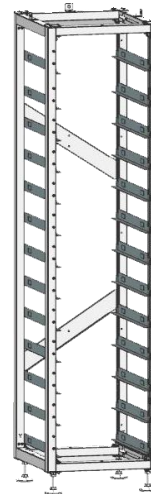


3U-HRACK(Optional)

Standard 19inch rack, caninstall 12 pcs batteries and 1 pcs High Voltage Battery cluster control box

Dimension (W/D/H)
Weight Approximate

530*602*2219mm
51kg



3U-LRACK(Optional)

Standard 19inch rack, caninstall 8 pcs batteries and 1 pcs High Voltage Battery cluster control box

Dimension (W/D/H)
Weight Approximate

530*602*1629mm
41kg

