

YOUR SAFE ENERGY

15-year Design Lifespan

A+ Grade Lithium Iron Phosphate Cells

Model: Flex16-HBox-n(n=6,7...16)

Active Balancing Technology

Indoor installation

Smart Air-Cooled Battery

Energy Capacity: 96–257 kWh

Battery Voltage: 268.8–934.4 V



Features and Advantages

Safety Technology

- Grade A+ lithium iron phosphate cells
- The system features multi-level fuse protection
- Built-in aerosol fire suppression device at pack level

Flexible and Expandable

- Up to 12 units in parallel
- 96kWh~3086kWh capacity

Module Mixing

- Modules manufactured within one year can be mixed

Easy to Install and Use

- Modules use a wireless stacking connection
- Ergonomic handles provide a secure grip and better balance for lifting and manual handling

Compatible inverters

- Solis, iNVT, Fox ESS, GoodWe, Solinteg

Product Selection

Flex16-HBox-n(n=6,7...16)				
Battery Model		Flex16-HBox-6	Flex16-HBox-7	Flex16-HBox-8
Number of battery packs		6	7	8
Nominal Energy		96.46 kWh	112.53 kWh	128.61 kWh
Nominal Voltage		307.2 V	358.4 V	409.6 V
String Configuration		1P96S	1P112S	1P128S
Operating Voltage		268.8 - 350.4 V	313.6 - 408.8 V	358.4 - 467.2 V
Dimension(W x D x H)	1 Stacks	830 x 490 x 1810 mm	830 x 490 x 2040 mm	830 x 490 x 2270 mm
	2 Stacks	2560 x 490 x 1120 mm	2560 x 490 x 1120 mm	2560 x 490 x 1350 mm
Weight		840 kg	990 kg	1120 kg
Battery Model		Flex16-HBox-9	Flex16-HBox-10	Flex16-HBox-11
Number of battery packs		9	10	11
Nominal Energy		144.69 kWh	160.76 kWh	176.84 kWh
Nominal Voltage		460.8 V	512 V	563.2 V
String Configuration		1P144S	1P160S	1P176S
Operating Voltage(V)		403.2-525.6 V	448 - 584 V	492.8 - 642.4 V
Dimension(W x D x H)	2 Stacks	2560 x 490 x 1350 mm	2560 x 490 x 1580 mm	2560 x 490 x 1580 mm
	3 Stacks	/	/	/
Weight		1250 kg	1380 kg	1510 kg
Battery Model		Flex16-HBox-12	Flex16-HBox-13	Flex16-HBox-14
Number of battery packs		12	13	14
Nominal Energy		192.92 kWh	208.99 kWh	225.07 kWh
Nominal Voltage		614.4 V	665.6 V	716.8 V
String Configuration		1P192S	1P208S	1P224S
Operating Voltage		537.6-700.8 V	582.4-759.2 V	627.2-817.6 V
Dimension(W x D x H)	2 Stacks	2560 x 490 x 1810 mm	2560 x 490 x 1810 mm	2560 x 490 x 2040 mm
	3 Stacks	/	/	3390 x 490 x 1550 mm
Weight		1640 kg	1770 kg	1960 kg
Battery Model		Flex16-HBox-15	Flex16-HBox-16	
Number of battery packs		15	16	
Nominal Energy		241.15 kWh	257.22 kWh	
Nominal Voltage		768 V	819.2 V	
String Configuration		1P240S	1P256S	
Operating Voltage		672-876 V	716.8-934.4 V	
Dimension(W x D x H)	2 Stacks	2560 x 490 x 2040 mm	2560 x 490 x 2270 mm	
	3 Stacks	3390 x 490 x 1580 mm	3390 x 490 x 1780 mm	
Weight		2090 kg	2220 kg	

System Technical Parameters

Model	Flex16-HBox-16
Battery Data	
Nominal Energy	257kWh
Nominal Voltage	819.2V
Battery Model	Flex16-HBox-16
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)
Cycle Life[1]	≥8000 cycles
Cell Specification	3.2V 314Ah
Battery Pack Energy	16.076 kWh
Cluster Configuration	1P256S
Number of Clusters	1
Operating Voltage	716.8V - 934.4V
Recommended Charge/Discharge C-rate	0.5C (157A)
Maximum Charge/Discharge C-rate	0.64C (200A)
Peak Discharge Current (25°C)	280A - 300A
Recommended Charge/Discharge Power	8.038 kW
Maximum Charge/Discharge Power	10.24 kW
Depth of Discharge (DOD)	95%
Cell Balancing Technology	Active balancing
Installation	Cableless stacking
Scalability	up to 12 clusters in parallel (3086kWh)
Safety	
Fire Extinguishing System	Integrated aerosol fire suppression device
General	
Dimension(WxDxH)	3390 x 490 x 1780mm
Weight	Approximately 2200kg
IP Rating	IP20
Cooling Method	Smart air cooling
Operating Temperature	-20°C - +50°C
Storage Temperature	-20°C - +45°C
Relative Humidity	15%~90%(Non-condensing)
Max. Operating Altitude	≤2000m
Communication Interfaces	LAN/CAN/RS485/Wi-Fi
Compliance	UN 38.3, MSDS, IEC 62619, IEC 61000

* The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified, the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

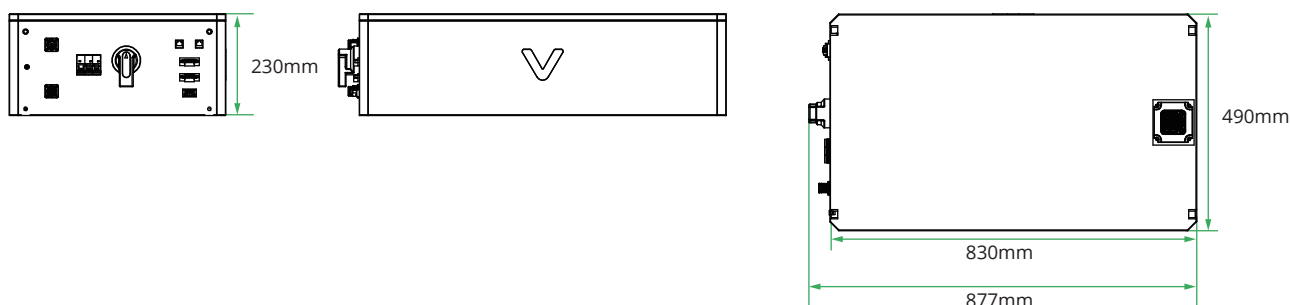
* The specifications are subject to change without prior notice.

[1]Test Conditions: Charge/discharge at 0.2C, 25°C, 95% depth of discharge (DOD), 70% end-of-life (EOL)

Features and Advantages

- The product supports manual control and shunt trip control of the DC circuit breaker
- Built with high-reliability components and redundant protection design, the product withstands EMI, high temperature, and vibration ensuring high reliability and stability
- The front panel features operating status indicators for easy identification
- It supports temperature monitoring of busbars and power connectors in the high-voltage box to ensure system safety
- It provides accurate monitoring of battery cluster voltage, current, and insulation resistance status

Dimensions(WxDxH mm)

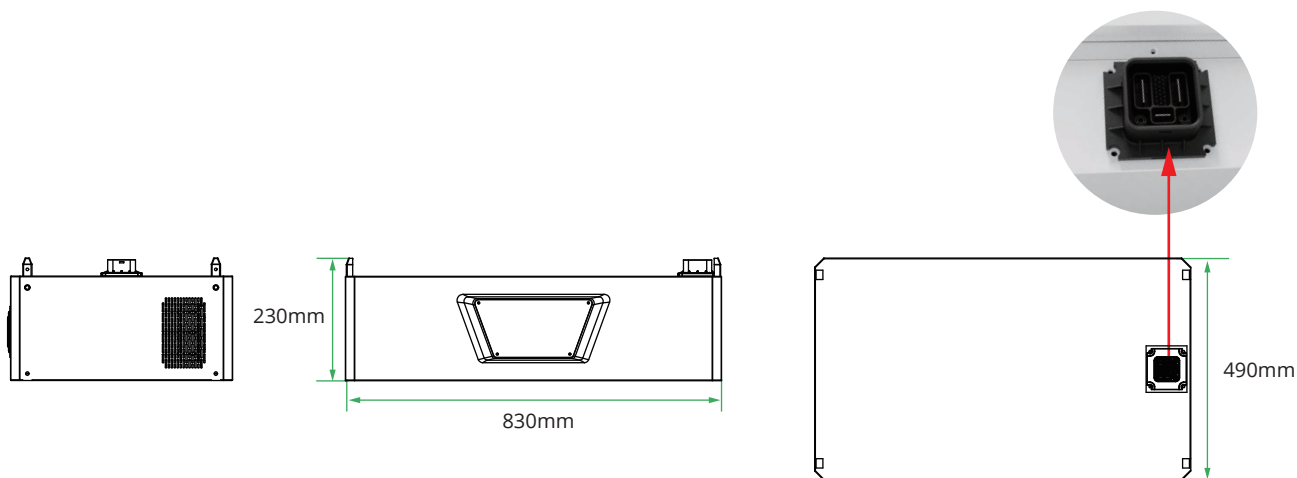


High Voltage Box Technical Parameters

Model	Flex16-HBox
Rated Voltage	DC1000V
Rated Current	250A
Insulation Resistance	$\geq 10 \text{ M}\Omega @ 1000 \text{ VDC}$
Dielectric Strength	3390 VDC, leakage current $\leq 1 \text{ mA}$, no breakdown or flashover
Operating Temperature	-20°C to $+65^{\circ}\text{C}$
Storage Temperature	-25°C to $+65^{\circ}\text{C}$
Relative Humidity	$\leq 95\%$
Cooling Method	Natural convection
Altitude	$\leq 2000 \text{ m}$
Dimensions (WxDxH mm)	830x490x230 mm
Weight	29 kg
Communication	CAN/RS485/LAN
Ingress Protection	IP20

Battery Pack

Dimensions(WxDxH mm)



Battery Pack Technical Parameters

Model	Flex16-Unit
Nominal Energy	16.076 kWh
Nominal Voltage	51.2 V
Rated Capacity	314 Ah
Battery Balancing	Active balancing
Balancing Current	up to 2A
Recommended Charge/Discharge C-rate	0.5C (157A)
Maximum Charge/Discharge C-rate	0.64C (200A)
Peak Discharge Current (25°C)	280A - 300A
Recommended Charge/Discharge Power	8.038 kW
Maximum Charge/Discharge Power	10.24 kW
Operating Temperature	-20°C - +50°C
Storage Temperature	-20°C - +45°C
Dimensions(W x D x H mm)	830 x 490 x 230 mm
Battery Weight (Approx.)	113 Kg