

High Voltage Lithium-iron Battery Modules

- Lithium Iron Phosphate (LFP) cell guarantees safety and reliability
- Parallel operation up to 5 units for energy expansion
- Suitable for wide range of solar inverters with high-voltage



Compact size and Lightweight

Built-in Lithium Iron Phosphate (LFP) cell with less space and weight.



Fast charging

Battery module can be fully charged in shorter time.



Modular design for easy scalable

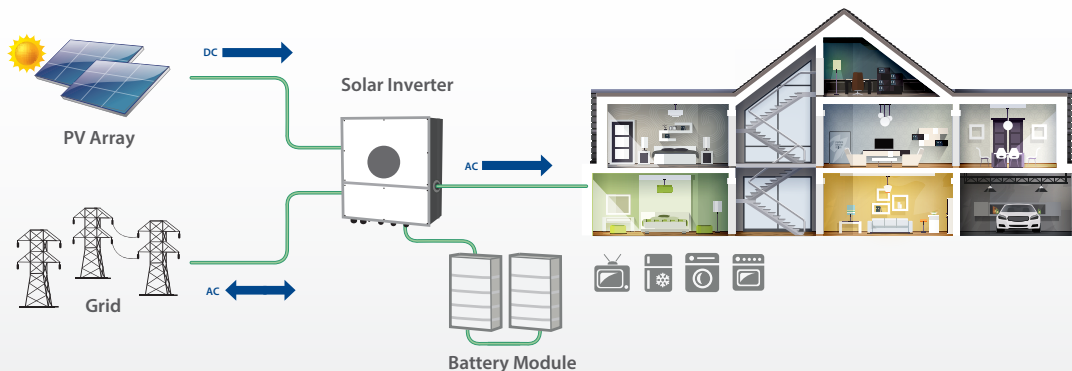
Battery module can be easily stacked and added for energy expansion.



Maximum Lifecycle

8000 cycles is for 60% DOD with >50% capacity
6000 cycles is for 80% DOD with >80% capacity
4000 cycles is for 90% DOD with >80% capacity

System Diagram



Technical Specification



BATTERY MODEL		EnergyCube 205	EnergyCube 305	EnergyCube 405	EnergyCube 605
CONTROLLER BOX MODULE		HVC 05	HVC 05	HVC 05	HVC 05
SINGLE BATTERY MODULE		HVB 05 (102.4V/50AH, 5120Wh)	HVB 05 (102.4V/50AH, 5120Wh)	HVB 05 (102.4V/50AH, 5120Wh)	HVB 05 (102.4V/50AH, 5120Wh)
NUMBERS OF MODULES		2	3	4	6
PARAMETERS					
Nominal Voltage		204.8VDC	307.2VDC	409.6VDC	614.4VDC
Full Charge Voltage (FC)		224VDC	336VDC	448VDC	672VDC
Full Discharge Voltage (FD)		179.2VDC	268.8VDC	358.4VDC	537.6VDC
Typical Capacity		50Ah			
Typical Energy		10KWH	15KWH	20KWH	30KWh
Max Continuous Discharging Current		60A			
Max Peak Discharging Current		75A			
Protection		BMS & Circuit Breaker			
Charge Current		10A	10A	10A	10A
Maximum Charge current		25A	25A	25A	25A
Standard Charge Method		0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C			
Cycle Life		6000 Cycles @>80% capacity			
Inner Resistance		≤20m ohm			
Operating Temperature	Charge	0°C~55 °C			
	Discharge	0°C~55 °C			
Compliance Safety		IEC 62619, UN38.3			
PHYSICAL					
Single Battery Module	Dimension, D x W x H (mm)	220 x 630 x 320	220 x 630 x 320	220 x 630 x 320	220 x 630 x 320
	Net Weight(Kg)	51.3	51.3	51.3	51.3
Controller Box	Dimension, D x W x H (mm)	220 x 630 x 210	220 x 630 x 210	220 x 630 x 210	220 x 630 x 210
	Net Weight(Kg)	9.95	9.95	9.95	9.95
Complete Set	Dimension, D x W x H (mm)	220 x 630 x 960	220 x 630 x 1280	220 x 630 x 1600	220 x 630 x 1280 & 220 x 630 x 1070
	Net Weight(Kg)	118	169	221	328

Product specifications are subject to change without further notice.