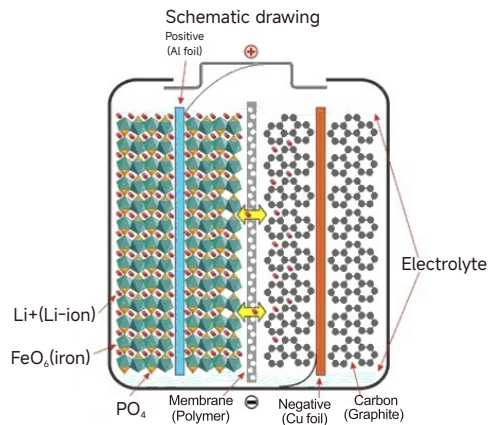




Energy storage products and solutions

Create green value, create customer value, and make energy more efficient Make the environment better and development sustainable



Lifepo4 Battery Cell

Lithium Iron Phosphate Battery (lifepo) has A Nominal Voltage Of 48 vdc. it is Comprised By 16 Cells Of 3.2v Each. The internal Structure Of Lifepo4 Battery Cells Shown In The Figure On The Right. Shown Is: The Olivine Structure Of Lifepo4 As The Positive Electrode Of cell. Aluminum Foil Functions As Current Collector Of Positive Pole. A Polymer Membrane Separates Positive And Negative Electrodes Of The Cell. The Electron (e-) Can't Pass Through The Polymer Separator But Li+ Can Pass Through it Freely. The Negative Electrode Which Consists Of Graphite is Shown in The Figure On The Right. Copper Foil is: The Current Collector Of Negative Electrode. There Is Organic Electrolyte In The Cell Which is Sealed By Al-plastic Composite Film.

General features

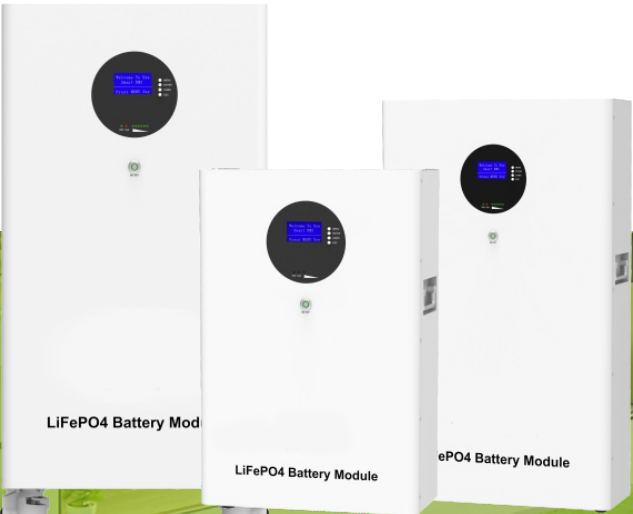
Lithium iron phosphate (LiFeP04) is used as positive material, which offers extended cycle life and good safety performance. Embedded BMS offers voltage, current, temperature protection and alarm functions. BMS can communicate with other device by modbus protocol. Embedded BMS unit measures current, voltage, single cellsurface temperature and the ambient temperature of the battery. Embedded BMS offers four remote functions which can communicate with far-end central control center by computer management. The combination of BMS and computer management technology can achieve real-time monitoring and control of variousparameters and status. off the support from The power system has secondary cut-off protection and when the voltageis too low thesystem will cut battery to protect the battery service life. Under normal operating conditions, the entire system emits very little noise due to their passive cooling design.

Advantages

Low self-discharge rate(per month):<2%,no memory effect.
Low weight, Specific Energy is 2-3 times larger than conventional lead acid batteries. small size, Volumetric specific Energy is about 2 times larger than lead acid battery.
Safety, LiFeP04 battery completely solves the safety problems of traditional lithium battery.
Wide operating temperature range (-20°C--+60°C) and good high temperature performance.
Excellent fast charging performance, after fast charging with 1C current, the capacity can reach 95% of rate capacity in half-hour.
Flexible configuration, a plurality of modules in parallel can support expansion of capacity to extend backup time.
Easy installation, the battery can be installed in 19"standard cabinet or wall-mounted Being in sleep mode to reduce energy loss when storage and transport.
Convenient interface design,all wiring harness is connected with plug.
Environment-friendly,not containingheavy metals.
Safety, LiFeP04 battery completely solves the safety problems of traditional lithium battery.
Having FTTH usually supersedes FTTB (FTTx) could be simpler to use.



51.2V Wall-mounted Lithium Battery Series



Product features

- Space-saving: Mounts directlyon walls, ideal for compact homes.
- Aesthetic integration: Sleek design blends with home decor.
- Flexible installation: Indoor/outdoor options with no extra brackets.

> Context of Use



Model	YY51100LW	YY51200LW	YY51280LW	YY51300LW	YY51320LW
Total Energy(kWh)	5.12KWh	10.24KWh	14.336KWh	15.36KWh	16.384KWh
Capacity(Ah)	100Ah	200Ah	280Ah	300Ah	320Ah
NominalVoltage(V)	51.2V	51.2V	51.2V	51.2V	51.2V
Float Voltage(V)	58.4V	58.4V	58.4V	58.4V	58.4V
Equalization Voltage(V)	56V	56V	56V	56V	56V
Discharge CuttingVoltage(V)	44.8V	44.8V	44.8V	44.8V	44.8V
Max.Charge & Discharge Current(A)	100A	200A	200A	200A	200A
Max.C Rating	1C	1C	0.7C	0.65C	0.6C
Dimension(mm)	570*410*160	830*500*160	830*500*250	830*500*250	860*500*250
Net Weight(kg)	45.2kg	91.6kg	122kg	125kg	132kg
Max. Scalable	15 in parallel				
Communication Ports	CAN/RS485/RS232				
Communicated inverter	"Goodwe/Victron/Sofar/Deye/Voltronic/Pylon /Luxpower Afore/Must/ SakoSorotec/Sma/Solis/Phocos /Kstar/Mpp Solar/Growatt/Megarevo/Srne"				
Charging Temp Range(°C)	0~55°C				
Discharging Temp Range(°C)	-10~55°C				
Cycle Lifes	≥6000 cycles@80%DOD/0.5C/25°C				
Warranty	5 years				
Certifications	CE,UN38.3,MSDS				
Function	WIFI、Display screen				