

ALL-IN-ONE Solar&Lithium Battery Energy System



Main Composition

The All-in-one system is composed of inverter, MPPT solar controller, LiFePO4 battery, BMS protection system, cabinet and other auxiliary components.



Product Feature

●Efficient

The priority supply sequence of Battery(DC) and Grid power(AC) can be set.

When the grid breaks down, smooth switch to this power source within 4ms and never cut off.

Built-in lithium battery, capacity from 1.2KWh-48KWh can be configured by the customers.

The system assembly is flexible, simple and diversified.

●Smart

APP intelligent control, remote monitoring and control (optional).

Connected to the grid to realize peak-shaving and valley-filling, and self-use for spontaneous use.

Multiple communication equipment: GPRS, RS485, CAN*2 (for lithium battery), Wifi (optional).

●Reliable

Professional energy management system, three-stage charging function, compatible with different kinds of Lithium iron batteries.

The charging current can be adjusted according to various battery capacity.

Friendly man-machine interface, large LCD screen display.

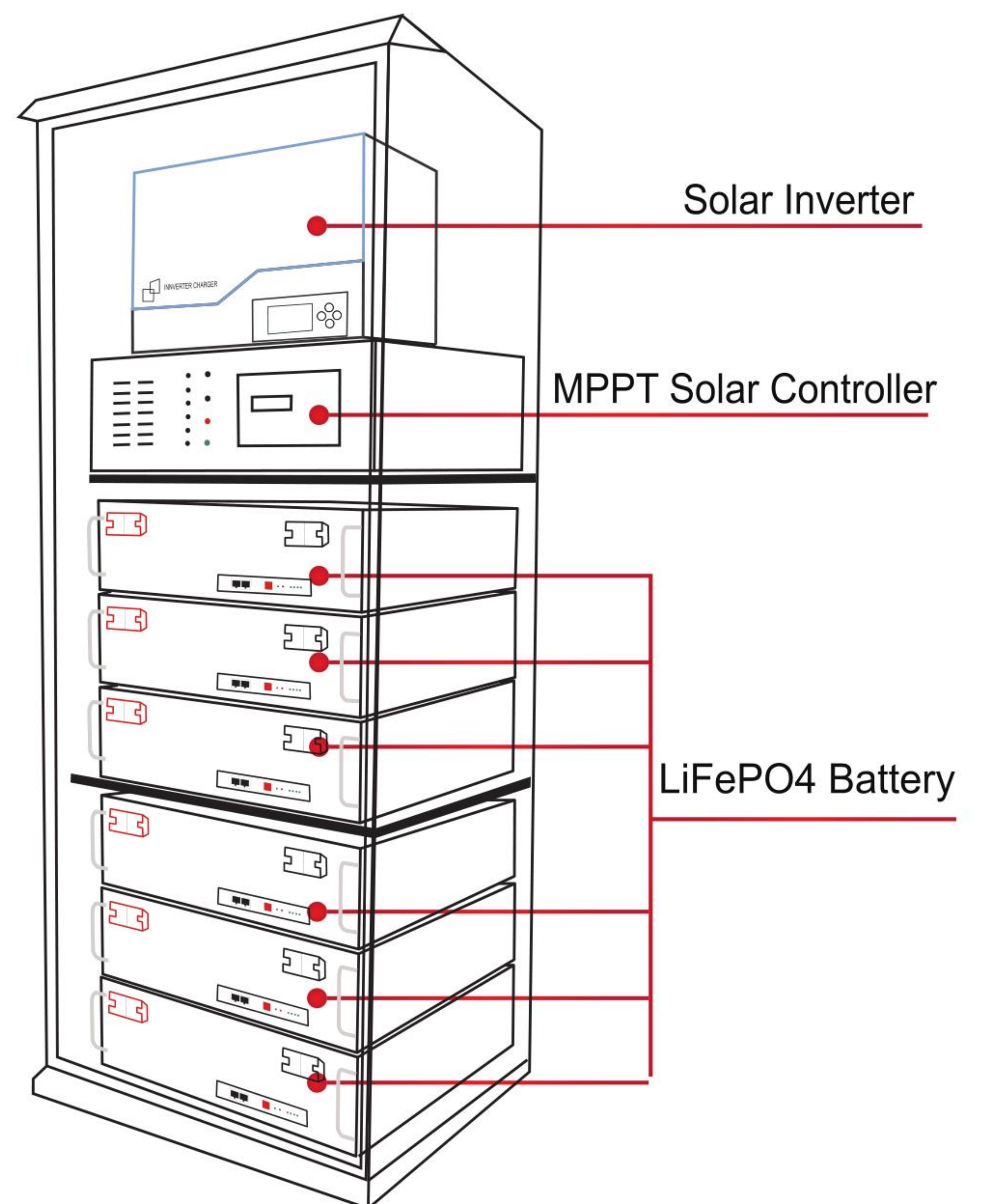
It has long cycle life, stable power supply and high reliability.

Wide operating temperature range, high and low temperature performance.

IP20/IP65 protection grade is optional.

Small size and light weight.

Diagrammatic Sketch



Energy storage applications including industrial plants, parks, communication base stations, islands, military camp, port power, subway, ETC gate and other areas in lack of power as a backup power supply.



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Technical Data

Model	M-ESS2K	M-ESS3K	M-ESS4K	M-ESS5K	M-ESS8K	M-ESS10K	M-ESS20K
System capacity							
Stored Battery	2.4KWh	4.8KWH	4.8KWH	9.6KWH	19.2KWH	24KWH	38.4KWH
Battery Capacity	24V100AH	24V200AH	48V100AH	48V200AH	48V400AH	48V500AH	96V400AH
Rated Output Power	2KW	3KW	4KW	5KW	8KW	10KW	20KW
Inverter Parameters							
DC Voltage	24V	24V	48V	48V	48V	48V	96V
AC Input & Output Voltage	220-240Vac/100-120Vac 50/60Hz Optional						
Output Waveform	Pure Sine Wave						
Recharging Current	10-50A Adjustable						
Distortion	<3%						
Power Factor	1.0						
Switching Time	<4ms						
Lithium Battery Parameters							
Number of Battery Cycles	2000 times (100% DOD) / 4000 times (80% DOD) / 7000 times (50% DOD)						
Cell Type	LiFePO4 Battery						
MPPT Controller (Optional)							
MPPT Voltage	0-150V						
MPPT Recharging Current	24V60A	24V60A	48V80A	48V100A	48V 80A*2	48V 100A*2	96V 100A*2
APP and LCD display							
APP Function	Remote Monitoring And Control Function (Optional)						
LCD Screen	Display inverter\controller\lithium battery data (optional)						
Installation Method	Floor-standing						
Service life	10 Years						
Weight	90kg	120kg	140kg	190kg	300kg	380kg	500kg
Protection Level	IP20/IP65 Optional						



Remarks: We can also customize it according to your specific requirements (such as battery type, AC outlet types, AC output voltage, inverter, integrated charge controller, or UPS switching function).



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