



# ENERGY STORAGE BATTERY

51.2V100Ah

5.12KW 4U Rack-Mounted

# HOME AND COMMERCIAL



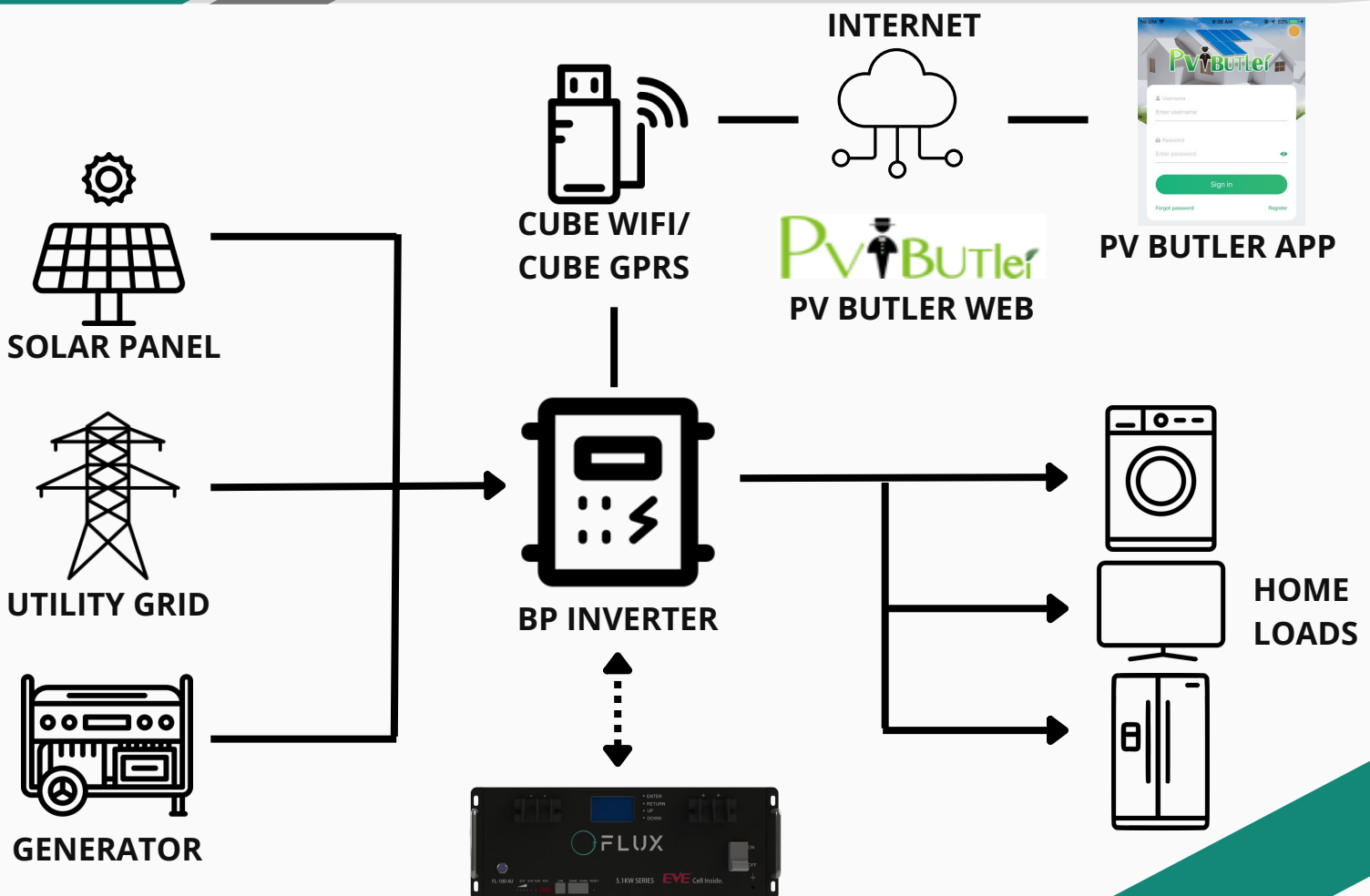
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FLUX battery BMS supports simultaneous communication and is compatible with multiple inverter brands.



## PRODUCT FEATURES

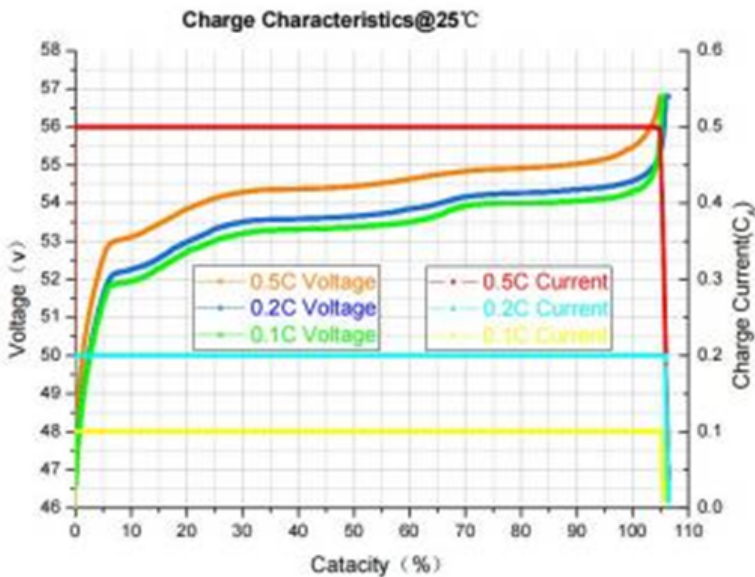
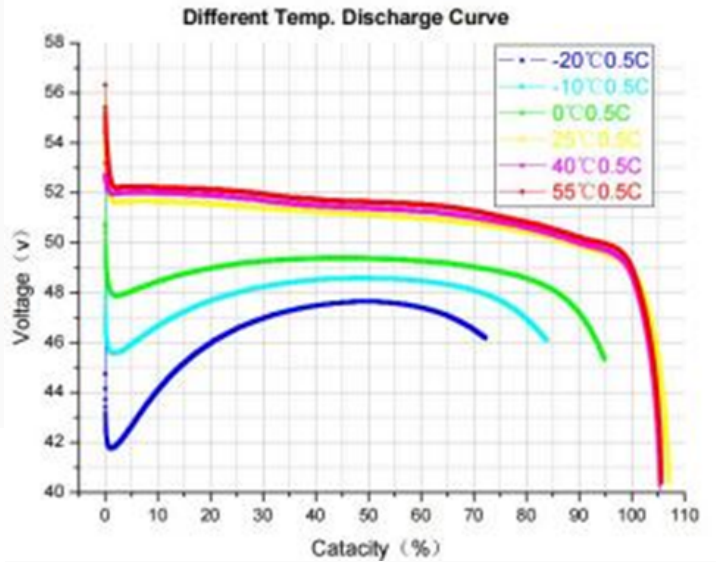
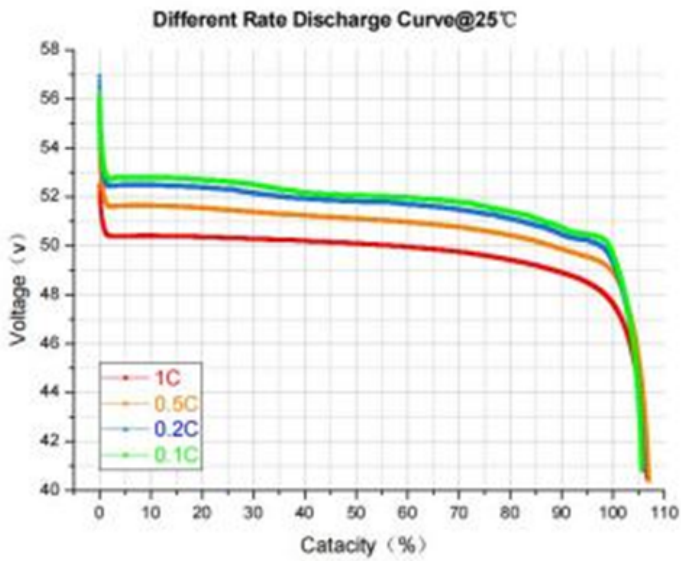
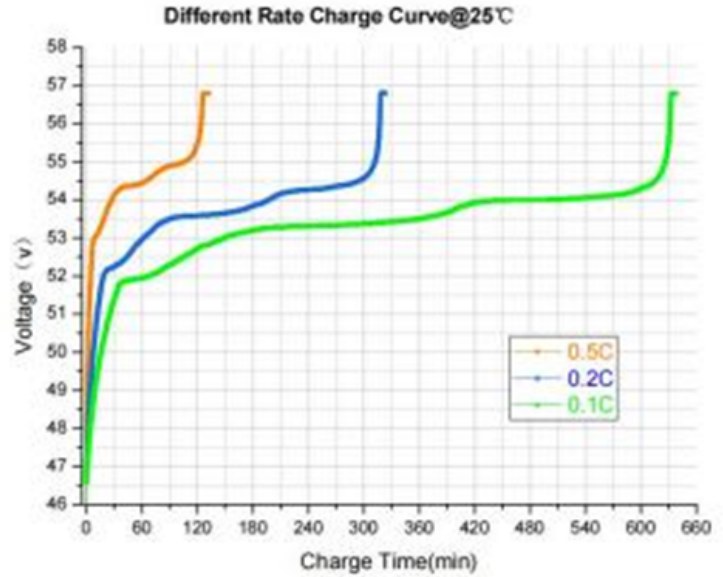
- Applied to home and commercial energy storage, communication base station, back-up power.
- CAN interface for communication with inverter.
- Double RS485 interface, support parallel communication.
- Automatic pre-charge circuit.
- Intelligent electricity calculation, data storage, protection of over-current, over-charge, over-discharge over-temp, short circuit, and insufficient electricity.
- Compatible with battery protocols (e.g., PYLON) and leading inverters (e.g., Goodwe – Sunsynk Growatt).
- The 8-bit dial switch can distinguish the master and slave addresses. The master monitors up to 15 slave batteries.
- Excellent current limiting design, support battery parallel for higher capacity requirements.
- Long cycle life, wide working temp range, can replace lead-acid battery.
- 100A continuous discharge current.
- LCD display.
- Bluetooth



## TECHNICAL SPECIFICATIONS

<b>Battery Type</b>	<b>Li FePO4</b>
<b>Usable Capacity</b>	<b>5120 Watt @C2, 25°C</b>
<b>Nominal Voltage</b>	<b>51.2VDC</b>
<b>Operating Voltage Range</b>	<b>43VDC - 58.4 V DC</b>
<b>Operating Temperature Range</b>	<b>-20°C - 60°C</b>
<b>Cycle Life @ 100% DoD</b>	<b>&gt; 3500 cycles (5120Wh @C2, 25C)</b>
<b>Cycle Life @ 80% DoD</b>	<b>&gt; 5000 cycles (4096Wh @C2, 25C)</b>
<b>Cycle Life @ 70% DoD</b>	<b>&gt; 7000 cycles (3584Wh @C2, 25C)</b>
<b>Dimensions (mm)</b>	<b>482mm x 410mm x 176mm (4U) (W x D x H)</b>
<b>Weight (kg)</b>	<b>48kg</b>
<b>Charge Current (max.)</b>	<b>100A continuous(25C)</b>
<b>Discharge Current (max.)</b>	<b>100A continuous(25C)</b>
<b>Over-charge protection</b>	<b>3.65V</b>
<b>Over-charge release</b>	<b>3.40V</b>
<b>Under-discharge protection</b>	<b>2.60V</b>
<b>Under-discharge release</b>	<b>2.70V</b>
<b>Over-current protection</b>	<b>110A</b>
<b>Over-current delay</b>	<b>10 S</b>
<b>Charging over-temperature protection</b>	<b>55C</b>
<b>Charging under-temperature protection</b>	<b>0C</b>
<b>Discharge over-temperature protection</b>	<b>60C</b>
<b>Discharge under-temperature protection</b>	<b>-20</b>
<b>Balance current</b>	<b>≤200mA</b>
<b>Balance Condition</b>	<b>≥ 3 .35V, voltage difference 50mV</b>
<b>Self-discharge Rate</b>	<b>&lt; 3% per month</b>
<b>IP- Protection</b>	<b>IP51</b>
<b>Safety certification</b>	<b>UN38.3</b>
<b>Communication port with inverter</b>	<b>CAN or RS485</b>
<b>Bluetooth Function</b>	<b>Yes</b>
<b>Cell brand</b>	<b>Prismatic LFP EVE - Cell (100AH)</b>

# PERFORMANCE CURVE



## POINTS FOR ATTENTION

- Do not short-circuit battery.
- It is forbidden to put the LCD screen in the sun, which is easy to damage the parts.
- Long-term storage, check the power in time at least every 3 months. When the battery power is less than 10%, please charge it to more than 30% (soc $\geq$  30%) in time.
- It is forbidden to directly immerse, the battery in water, and it is forbidden to wash the outside.
- 15~45C charging temperature is suggested, which is beneficial to the battery performance.
- 5 Year Manufacturer Warranty.

Certification UL1642 / IEC62619 / CE/ ROHS/ MSDS / UN38.3 Pack: MSDS / UN38.3



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