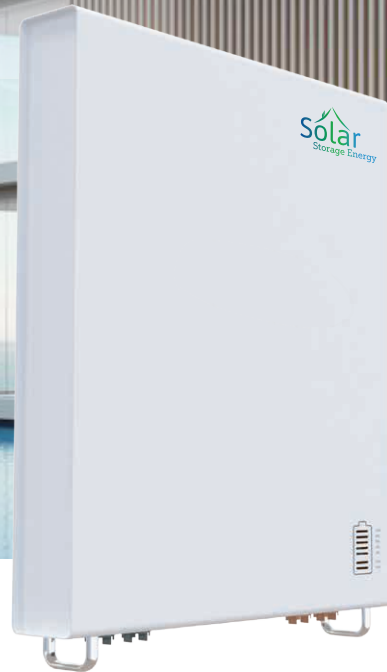


# Ultra 90MM Slimline Powerwall Battery



## Features

- Scalable battery design for easy expansion, Max. 16pcs in parallel
- BYD blade lithium cell more safety, longer life cycle and more esable energy, upto to more than 10 years working life
- Stylish, ultra-thin Easy connection saving installation time and cost
- Compatible to residential 48V hybrid inverter, and off grid inverter compatible with CAN / RS485 communication interface matching with leading inverter brands
- Villa, Household, farm, base station, field power supply



### High cycle life

>8000 cycles @80% DoD for effectively lower total of ownership cost



### Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



### Longer service life

Low maintenance batteries with stable chemistry.



### Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +45°C.



### Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



### Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.



### Better storage

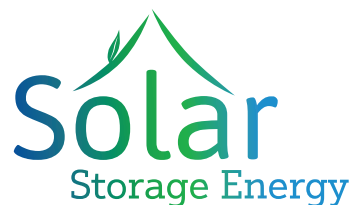
Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



### Function

Support parallel operation

# Ultra Thin 90MM Slimline Powerwall Battery



## Specifications

Model	VSP-0050.001	VSP-0100.001	Remark
<b>Nominal Energy</b>	5120Wh	10240Wh	Standard charging and discharging mode test
<b>Series parallel connection</b>	16 groups in parallel	16 units in 2 parallels	16S1P
<b>Nominal capacity</b>	100Ah	200Ah	Standard charging and discharging mode test
<b>Nominal voltage</b>	51.2V	51.2V	/
<b>Operating voltage range</b>	40~58.4V	40~58.4V	Temperature range :-20~65 °C
<b>Operating temperature (charging)</b>	0~65 °C ≤90%ROH	0~55 °C ≤90%ROH	
<b>Operating temperature (Discharging)</b>	-20~65 °C ≤90%ROH	-20~60 °C ≤90%ROH	
<b>Standard charging</b>	Constant current charging: 50A Charging voltage: 58.4A Cut off current: 5A	Constant current charging: 100A Charging voltage: 58.4A Cut off current: 10A	Maximum unit voltage 3.65V
<b>Maximum continuous charging current</b>	Constant current charging: 100A Charging voltage: 58.4A Cut off current: 5A	Constant current charging: 200A Charging voltage: 58.4A Cut off current: 10A	Maximum unit voltage 3.65V
<b>Standard charging</b>	Constant current charging: 50A Cut off voltage: 40V	Constant current charging: 100A Cut off voltage: 40V	T ≥0 °C Minimum monomer voltage 2.5V
<b>Maximum continuous discharge current</b>	Constant current charging: 50A Cut off voltage: 40V	Constant current charging: 200A Cut off voltage: 40V	T ≥0 °C Minimum monomer voltage 2.5V
<b>Storage temperature</b>	-20~65 °C	-20~65 °C	Storage environment humidity≤95%ROH, no condensation
<b>Cycle life</b>	The capacity attenuates to 80AH and the number of cycles ≥8000	The capacity attenuates to 160AH and the number of cycles ≥8000	90% DOD, @25±2 °C, standard charging and discharging mode
<b>Monthly self discharge</b>	≥3.5% Per month	≥2% Per month	After three months shipment, the battery will be charged to 40% SOC and stored at @ 25.2 °C
<b>Monitoring communication</b>	RS232 / RS485 / CAN	RS232 / RS485 / CAN	
<b>Balanced approach</b>	Passive equalization	Passive equalization	
<b>Shipping capacity</b>	SOC 30~70% (TBD)	SOC 30~70% (TBD)	SOC 30~70% (TBD)
<b>Gross Weight</b>	54Kg	105Kg	
<b>Net Weight</b>	48±2Kg	95±2Kg	
<b>Product Size(LxWxH)</b>	(670x540x90) ±1mm	(700x980x100) ±2mm	
<b>Package Size(LxWxH)</b>	829x649x174mm	1223x816x189mm	



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