SuperBattery®
SIPANI
Lithium ion battery solution expert

TECHNICAL SPECIFICATION OF 51.2V100AH WALL-MOUNTED BATTERY

- 5.12KWH ENERGY
- 6000 CYCLES
- CALENDER LIFE ＞10 YEARS
- CUSTOMIZATION ACCEPTABLE
- FREE-MAINTENANCE
- 100 AMP SMART BMS
- SUPPORT CANBUS/RS485 COMMUNICATION
- SUPPORT MAINSTREAM INVERTER
- SUPPORT CONNECTION OF 16 PCS IN PARALLEL
- EQUIPPED WITH BATTERY STATUS MONITOR

Electrical Characteristic

Model	CD-PWB512100
Norminal voltage	51.2V
Norminal capacity	100AH
Norminal energy	5.12KWH
Internal resistance	⩽50mΩ
Output power(Max)	5120W
Self discharge rate	⩽3% per month@25℃
Max connection	16pcs in parallel
Cycle life	"＞6000 cycles @0.5C@80%DOD@25℃"
Working temperature	-20℃~60℃/-4℉~140℉
Storage temperature	-20℃~45℃/-4℉~113℉

Mechanical Characteristic

Battery cell type	Prismatic battery cell
Battery cell material	Lithium iron phosphate
Battery cell capacity	100Ah
Battery cell layout	16S1P
Shell material	Iron
Dimension	605*405*200mm
Net weight	47KG/103.6LBS
Protection level	IP54
Warranty	5 years
Accessory	"1.2m 4AWG positive&negative wire *2pcs User manual*1pcs, 1m RJ45 wire *1pcs"
Interface	Quick connect terminal*4(positive*2/Negative*2) RS485 terminal *2/CANBUS terminal*1 Address dial*1/SOC indicator*1 LCD display dashboard*1

Charging&Discharging Characteristic

Standard charge current	50A
Max charge current	100A
Charge method	CC-CV
Charge cut-off voltage	56V
Standard discharge current	50A
Max discharge current	100A
Discharge cut-off voltage	46.4V

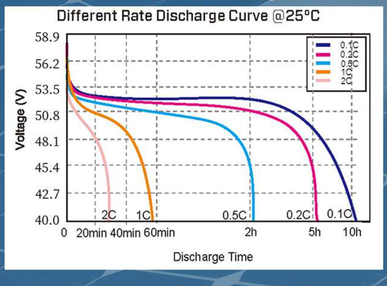
BMS Characteristic

Continuous discharge current	100A(MAX)
Short cuicuit protection	Support, recover when re-charge
Charge current limitation	10A
BMS pre-charge function	Suoport, 2000ms
Overcurrent protection	110A
Overcurrent reaction time	30ms
Overcharge protection	57.6V
Overdischarge protection	43.2V
Communication function	CANBUS/RS485
Current Balance(Passive balance)	150mA(Max)
Working temperature(Recommended)	-20℃~70℃/-4℉~158℉

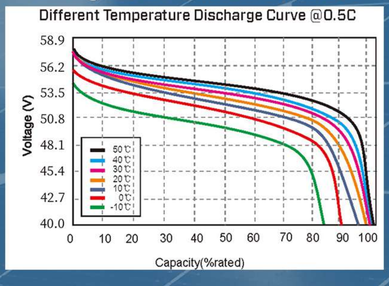
list of inverters supported

Brand	Communication protocol	Method
GOODWE	Goodwe communication aggreement -v1.5	CAN
PYLONTECH	CAN-Bus-protocol-PYLON-v1.3	CAN
GROWATT	Growatt BMS CAN-Bus-protocol_x005f low-voltage-V1.05 -EN version	CAN
VICTRON	canbus_bms_protocol	CAN
LXP	Luxpowertek Battery CAN Protocol	CAN
SOFAR	CAN-Bus-protocol REV5	CAN
DEYE	CAN-Bus-protocol-PYLON-v1.3	CAN
FOXESS	CAN-Bus-protocol-PYLON-v1.3	CAN
RENAC	CAN-Bus-protocol-PYLON-v1.3	CAN
SERMATEC	CAN-Bus-protocol-PYLON-v1.3	CAN
TBB	CAN-Bus-protocol-PYLON-v1.3	CAN
SOLIS	Goodwe communication aggreement	CAN
SMA	SMA-BMZ-Protocol-en-10	CAN

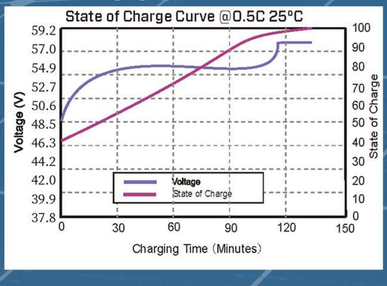
Curve Of Different Discharge Rate



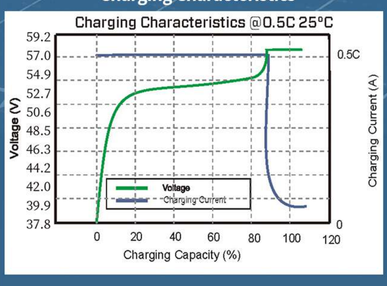
Discharge Curve At Different Temperature



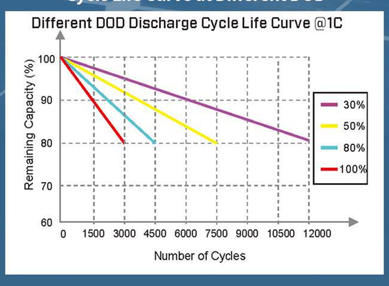
Charging Curve Of Different SOC



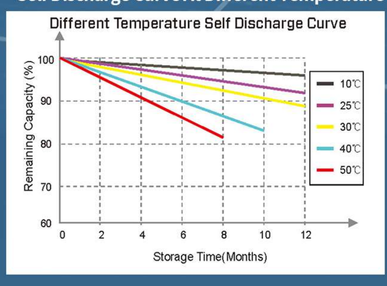
Charging Characteristics



Cycle Life Curve at Different DOD



Self Discharge Curve At Different Temperature



Cautions:

Do NOT expose the battery to water;

Do NOT expose the battery to fire & high temperature;

Do NOT short circuit, crush or disassemble;

Make sure the inverter's setting matches with the battery's charge & discharge characteristic;

Store at 50% capacity, and recharge the battery every 3 months;

The storage area should be clean, cool, dry and ventilated;

Disconnect the battery from the inverter and shut down the BMS when the battery is in storage status;

Maximum connection in 16 parallel, no series connection supported.

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GUANGDONG SUPER BATTERY NEW ENERGY CO.,LTD

ADDRESS: 4F, KEYUAN E RD NO.19 WAIHAI RESIDENTIAL DISTRICT, JIANGHAI DISTRICT, JIANGMEN CITY, GUANGDONG, CHINA

E-mail: info@chdbattery.com

https://chdbattery.en.alibaba.com/

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