

TECHNICAL SPECIFICATION OF 51.2V200AH WALL-MOUNTED BATTERY

- 10.34KWH ENERGY
- 6000 CYCLES
- CALENDER LIFE >10 YEARS
- CUSTOMIZATION ACCEPTABLE
- FREE-MAINTENANCE
- 100 AMP SMART BMS (150/200 AMP OPTIONAL)
- SUPPORT CANBUS/RS485 COMMUNICATION
- SUPPORT MAINSTREAM INVERTER
- SUPPORT CONNECTION OF 16 PCS IN PARALLEL
- EQUIPPED WITH BATTERY STATUS MONITOR

Electrical Characteristic

Model	CD-PWB512200
Normal voltage	51.2V
Normal capacity	202AH
Normal energy	10.34KWH
Internal resistance	≤50mΩ
Output power(Max)	5.12KW as default (7.68KW/10.24KW optional)
Self discharge rate	≤3% per month@25°C
Max connection	16pcs in parallel
Cycle life	>6000 cycles @0.5C@80%DOD@25°C"
Working temperature	-20°C~60°C/-4°F~140°F
Storage temperature	-20°C~45°C/-4°F~113°F

Mechanical Characteristic

Battery cell type	Prismatic battery cell
Battery cell material	Lithium iron phosphate
Battery cell capacity	202Ah
Battery cell layout	16S1P
Shell material	Iron
Dimension	620*520*256mm
Net weight	84KG/185.18LBS
Protection level	IP54
Warranty	5 years
Accessory	"1.2m 4AWG positive&negative wire *2pcs User manual*1pcs, 1m RJ45 wire *1pcs" Quick connect terminal*4(positive*2/Negative*2) RS485 terminal *2/CANBUS terminal*1 Address dial*1/SOC indicator*1 LCD display dashboard*1
Interface	

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 circuit protection	Support, recover when re-charge
Charge current limitation	10A
BMS pre-charge function	Suport, 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°C~70°C/-4°F~158°F

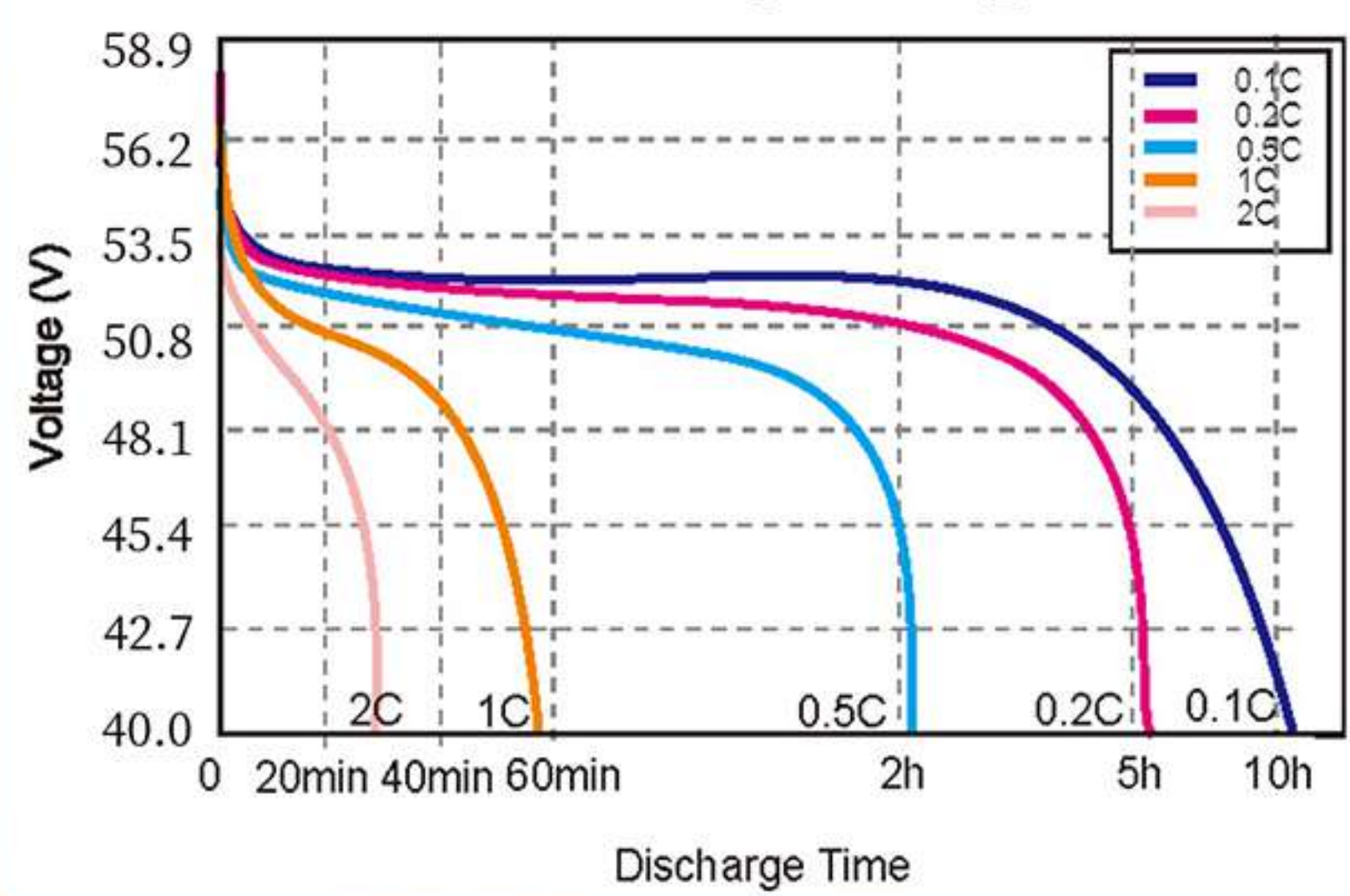


list of inverters supported

Brand	Communication protocol	Method
GOODWE	Goodwe communication agreement -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 agreement	CAN
SMA	SMA-BMZ-Protocol-en-10	CAN

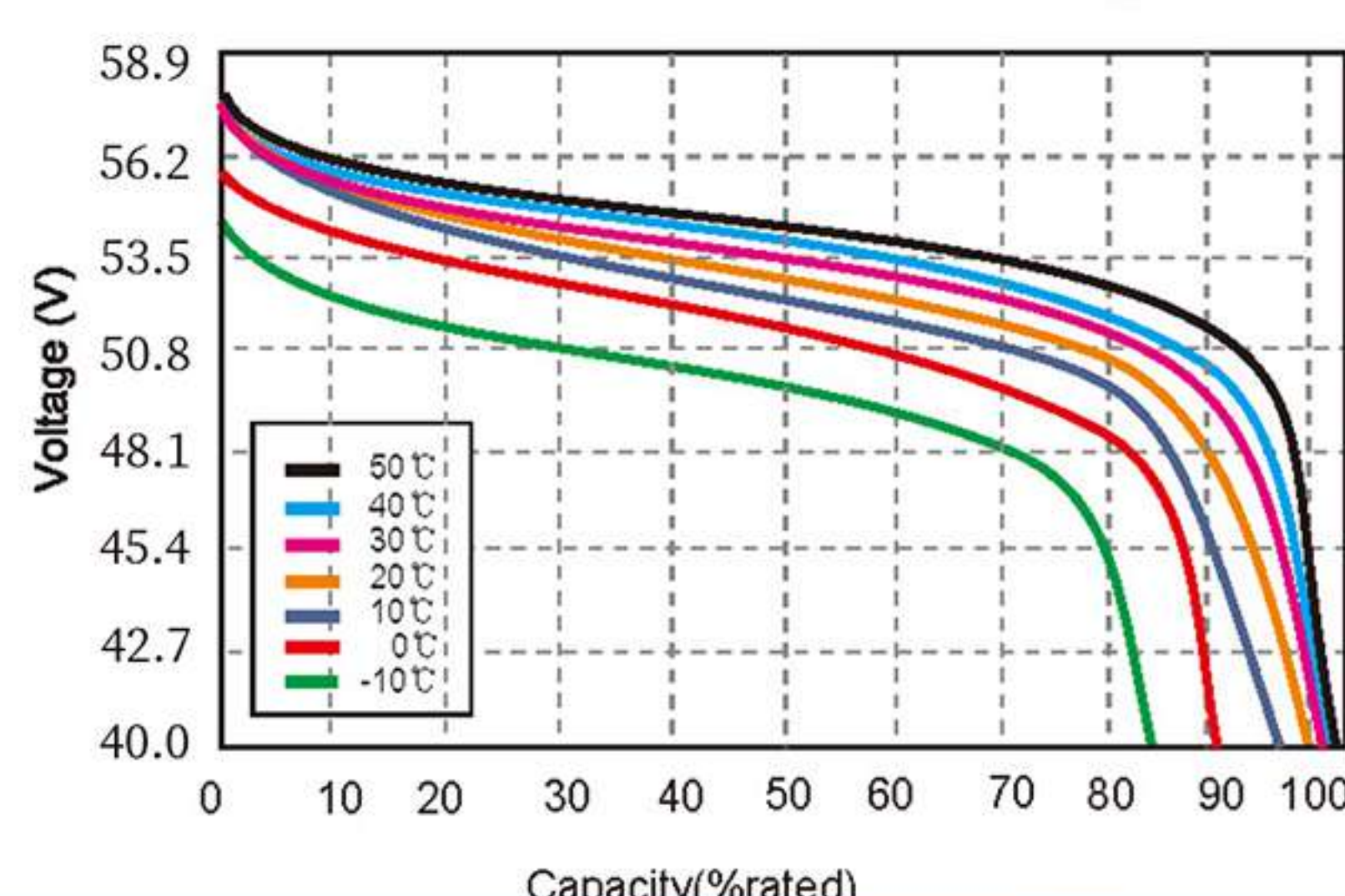
Curve Of Different Discharge Rate

Different Rate Discharge Curve @25°C



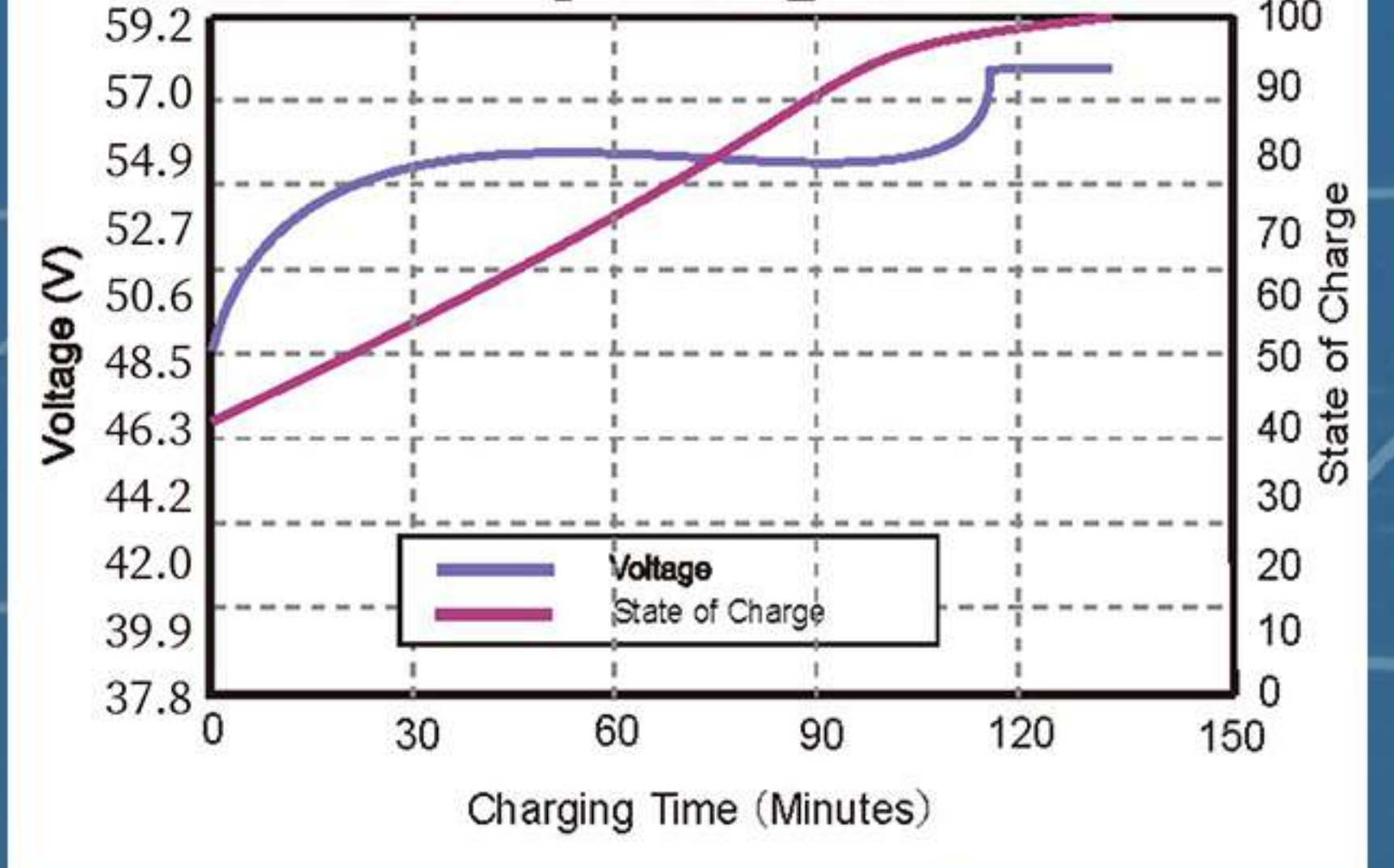
Discharge Curve At Different Temperature

Different Temperature Discharge Curve @0.5C



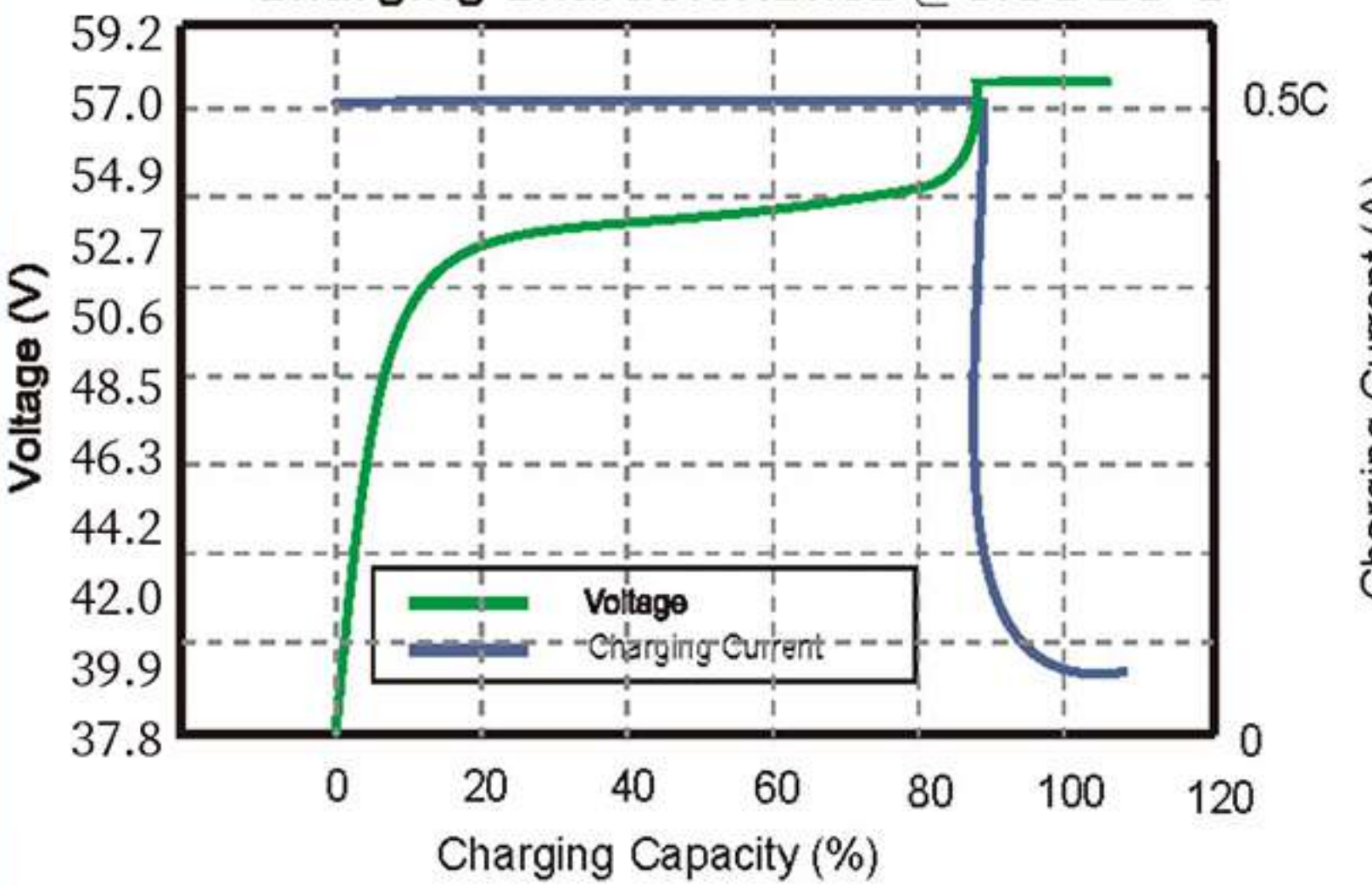
Charging Curve Of Different SOC

State of Charge Curve @0.5C 25°C



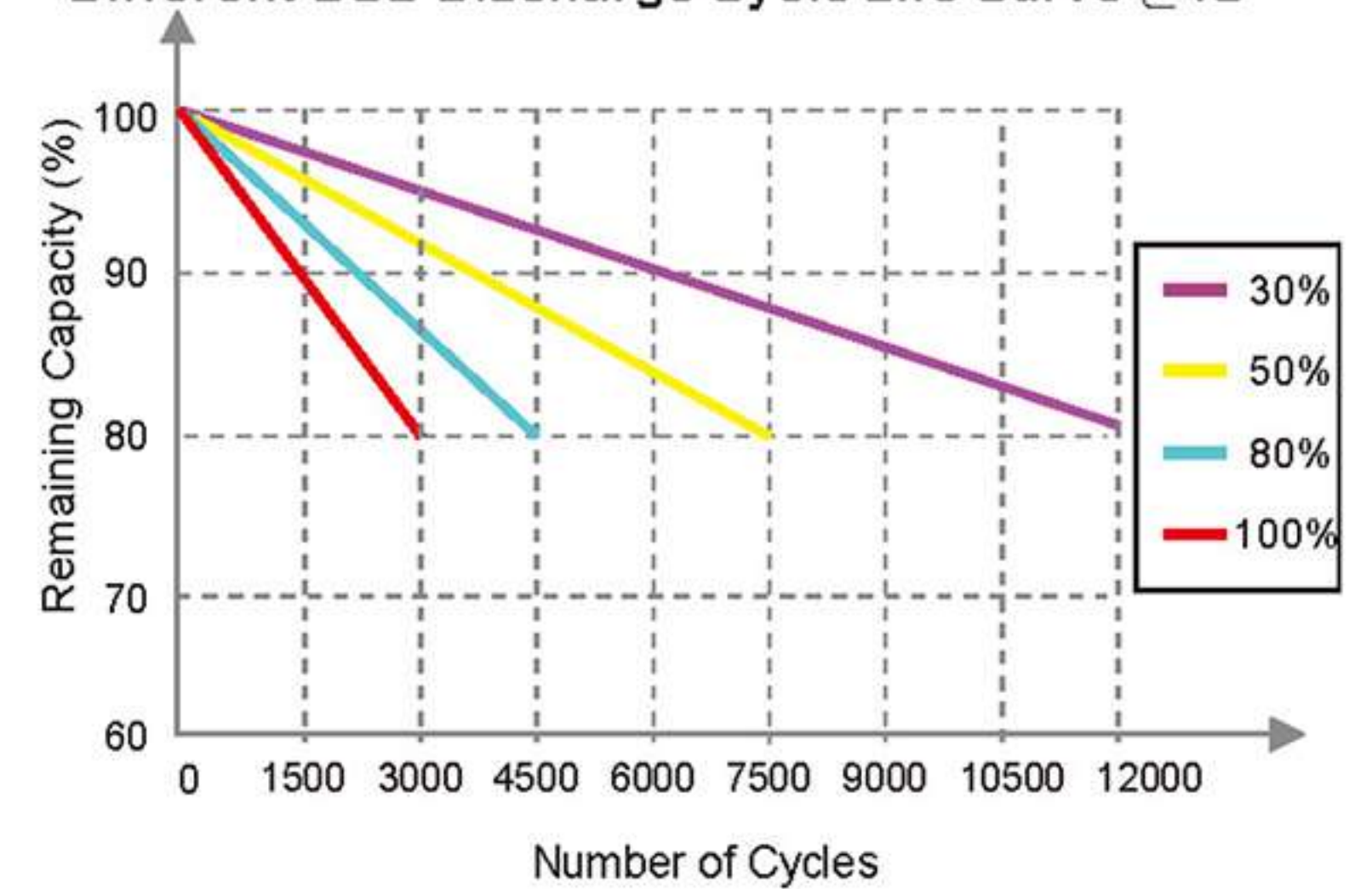
Charging Characteristics

Charging Characteristics @0.5C 25°C



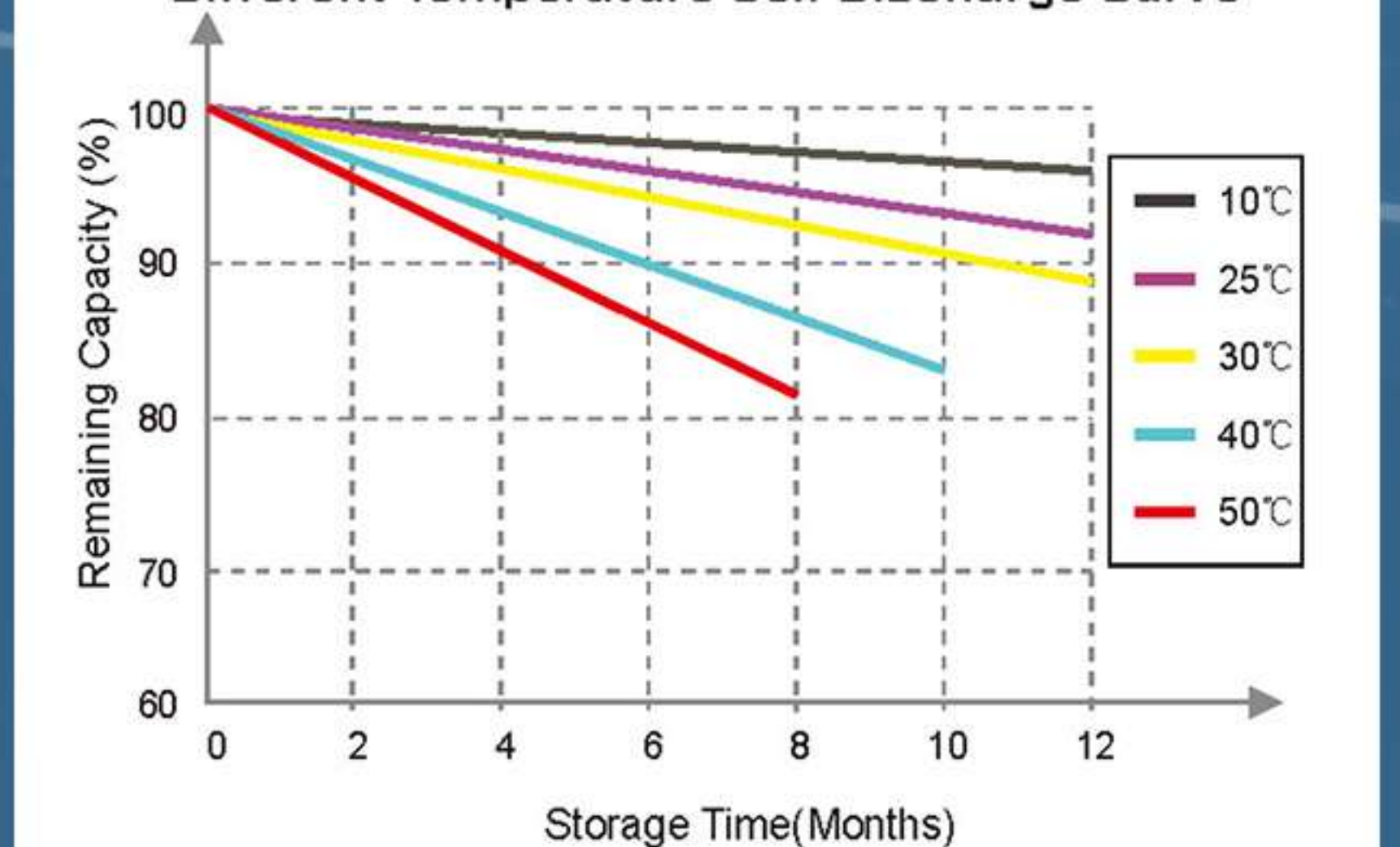
Cycle Life Curve at Different DOD

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Curve At Different Temperature

Different Temperature Self Discharge Curve



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.