

ABS

51.2V 100Ah

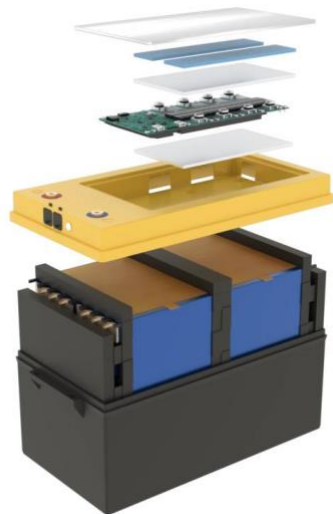
Self-heating (in option)



Technical Specifications

TEMPERATURE SPECIFICATIONS	
Charge Temperature	0° to 45 °C
High Disconnect Temperature / Reconnection In Charge (BMS)	70 °C / 60 °C
Low Disconnect Temperature / Reconnection In charge (BMS)	-0 °C / 5 °C
Discharge Temperature	-20 to 55 °C
High Disconnect Temperature / Reconnection In discharge (BMS)	75 °C / 65 °C
Low Disconnect Temperature / Reconnection In Discharge (BMS)	-20 °C / -10 °C
Storage Temperature	-20 to 45 °C
Voltage Storage	> 53 V

HEATING SPECIFICATIONS (in option)	
Heating Temperature	-30 °C to 11 °C
Activation Current	8 A
Heating Current	5.5 A



ELECTRICAL SPECIFICATIONS	
Voltage	51.2 Volt
Capacity	100 AH
Capacity @ 20A	300 min
Energy	5 120 W
Auto-discharge	<1% per month
Maximum Unit in Parallel	16 (per bank) x 3 banques

CHARGE SPECIFICATIONS	
Recommended Charge Current	50 A
Maximum Charge Current	90 A
Recommended Charge Voltage	56 V (Bulk) / 54.4 V (Float)
High Voltage Disconnect (BMS)	60 V (1s)
High Voltage Reconnect (BMS)	55.2V

DISCHARGE SPECIFICATIONS	
Continuous Discharge Current	100 A
Peak Discharge Current 1	102 A (30s)
Peak Discharge Current 2	150 A (3s)
Low Voltage Disconnect (BMS)	43.2 V
Short Circuit Protection	Yes

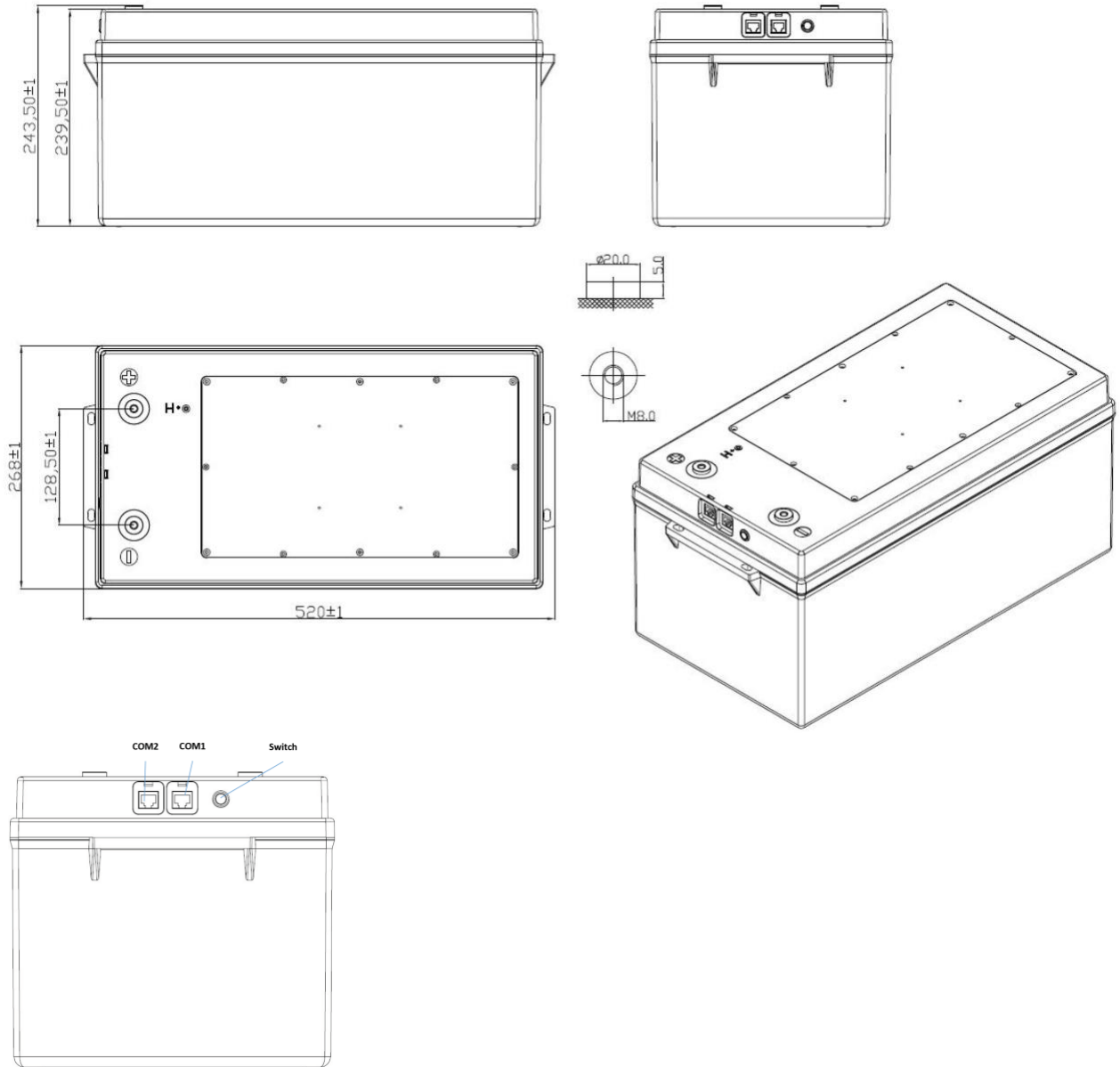
NUMBER OF CYCLES ACCORDING TO THE DISCHARGE %	
Discharge 30%	8200 < cycles
Discharge 80%	4250 < cycles
Discharge 100%	3000 < cycles

State of Health of 83% after 3560 cycles at 100% DOD @ 1C

MECHANICAL SPECIFICATIONS	
Dimensions (LxWxH)	520 x 268 x 244 mm 20.47 x 10.55 x 9.6 po
Weight	101 lbs
Terminal Type	M8
Communication Interface	RS485 & CAN (Victron VE.CAN / SolArk / Schneider...)

CERTIFICATIONS & CONCEPTION	
Conception	16S1P
Certifications	Cells UL1973 & CSA UL9540A IEC62619 IEC62660
Shipping Classification	UN 3480 CLASS 9
Cell Type	SquareCell - LiFePO4

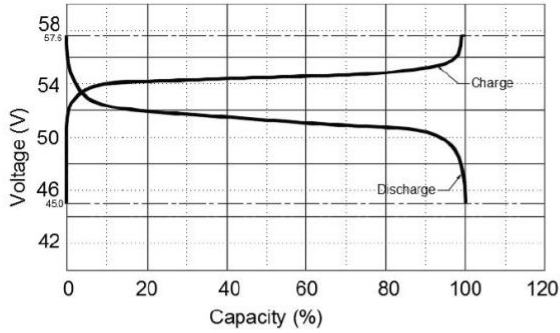
FICHE TECHNIQUE 2



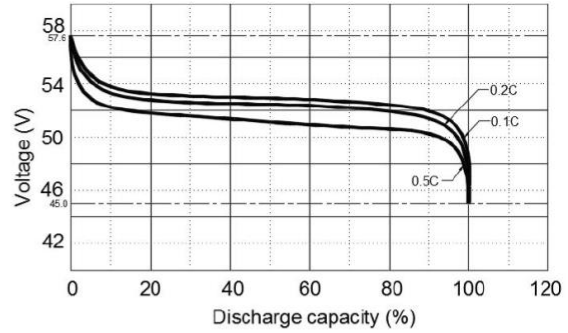
Definition			
COM1	Pin-1	RS485-B	Inverter communication
	Pin-2	RS485-A	
	Pin-3	/	
	Pin-4	CAN-H	Inverter communication
	Pin-5	CAN-L	
	Pin-6	/	
	Pin-7	Link-A	Parallel communication
	Pin-8	Link-B	

Definition			
COM2	Pin-1	Dry Contact(-)	1) if trigger warning/protection, dry contact will close it. (NC). 2) Normally state :NO
	Pin-2	Dry Contact(+)	
	Pin-3	/	
	Pin-4	Tx	RS232 communication
	Pin-5	Rx	
	Pin-6	GND	
	Pin-7	Remote SW+	Remote switch
	Pin-8	Remote SW-	

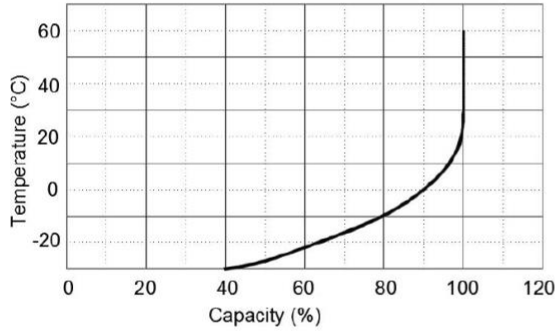
Charge & Discharge curve with 0.5C @ 25°C



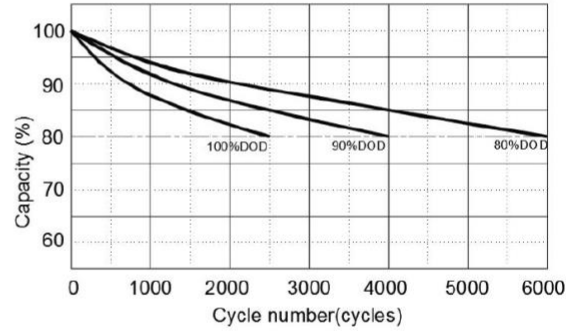
Discharge performance with different rate @ 25°C



Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @ 0.5C, 25°C



Self-discharge @ different temperature

