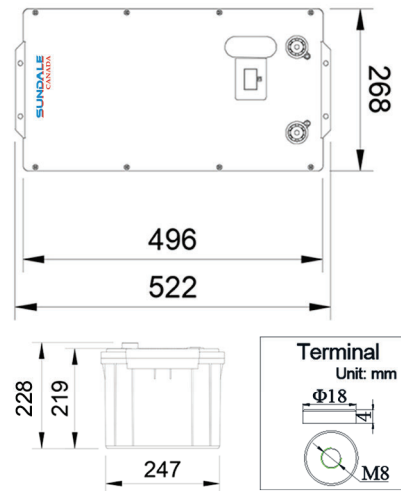




Detailed Illustration (size in mm)



L	521 mm 20.51 inch
W	268 mm 10.55 inch
H	220 mm 8.66 inch
H. with Term. -	228 mm 8.97 inch
NW	26 kg 57.32 lbs
GW	26.5 kg 58.42 lbs
Bat. size	8D

Volts	12.4Volt	Included Hardware	Yes
Battery	M8	Warranty	3 Years

Charge

Recommended Charge Voltage at 25°C	
Stand by / Back Up / Float Use	14.4V
Temperature Coefficient: 0.02V/°C	
Daily Cycle / Bulk / Boost	14.8V
Temperature Coefficient: 0.03V/°C	

Recommended Charge Current:

(-20 - 0) Celcius	10A
0 - 10 Celcius	15A
10 - 35 Celcius	20A
35 - 45 Celcius	20A

Maximum Charge Current Up to 100A (High charge current reduces battery life)

Surge Current Limit 200A (≤ 5s)

Discharge Current VS Performance of Battery at 25°C

Rated Discharge	Dis. Curr.	Battery Running Capacity	
Current Factor (c)	Amps (A)	Time in Hours	Amp Hour (Ah)
0.1	20	10	200
0.2	40	5	200
0.3	90	3.3	198
0.5	100	1.98	198

As the Discharge Current Factor Increases, the battery service life decreases.
For optimal use, recommended depth of discharge ≤ 80% at 0.2c draw rate

Temperature - Discharge Performance

(-40 - 0) Celcius	100A
0-45 Celcius	100A
45-60 Celcius	40A
Max. Continuous Discharge Current	110A

Charge Temperature Range	-20°C ~ 45°C
Discharge Temperature Range	-40°C ~ 60°C
Storage Temperature Range	-40°C ~ 60°C
Self-Discharge at 25°C	2-3% every month

Relation Between SOC, Stand-By Voltage, Cycle Life & Depth of Discharge

SOC	Stand By Voltage (± 0.1V)	Cycle Life	DOD
100%	14.4		0%
80%	13.125	9000	20%
50%	11.625	5000	50%
30%	10.75	4000	70%
0%	10.25	2000	100%

SOC = State of Charge DOD = Depth of Discharge

To have the battery serve its design life, we recommend to stop discharge at 11.625V

Capacity

Nominal Capacity	210 AH
Total Energy	2604 WH
Nominal Voltage	12.4 V
Battery Chemistry	n/a

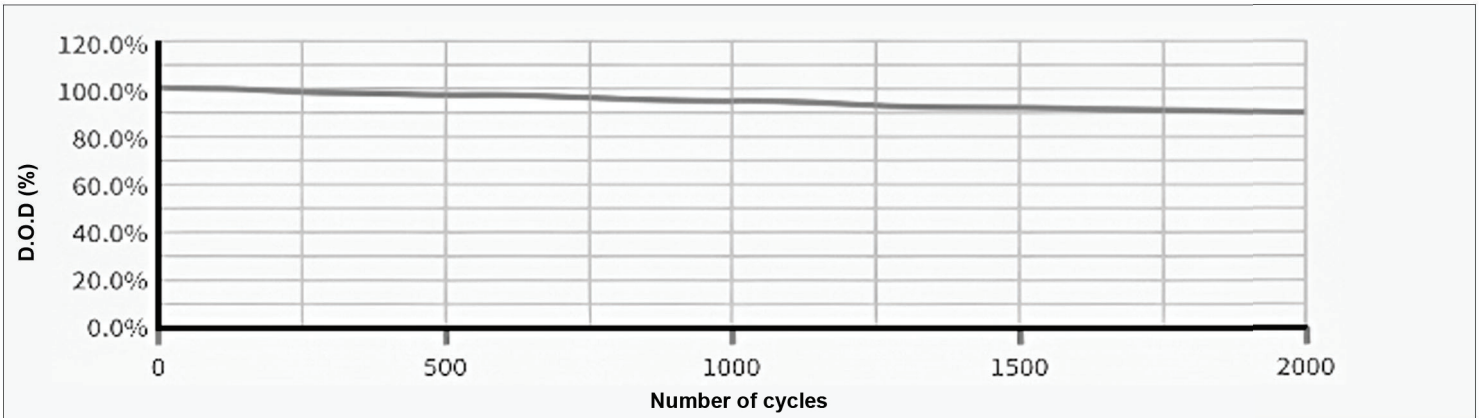
Design

Bluetooth (Yes Or No)	No
Heated (Yes Or No)	No

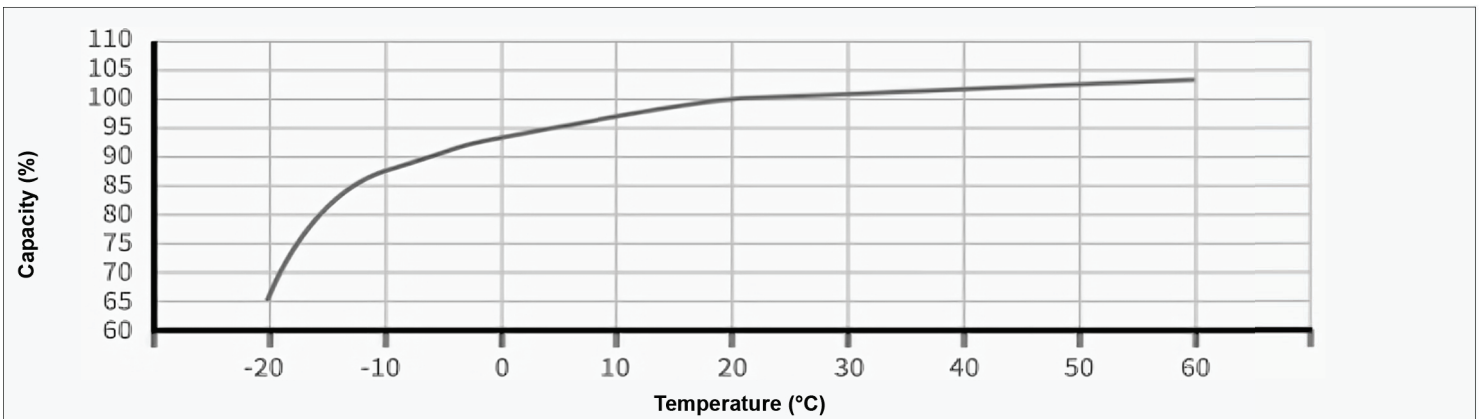
BMS

Independent Charge Protection	YES
Independent Discharge Protection	YES
Short-Circuit Protection	YES
Over-Voltage Protection	YES
Low-Voltage Protection	YES
Over-Current Protection	YES
Low-Temperature Protection	YES
Over-Temperature Protection	YES
Container Material	ABS
Cover Material	ABS
Handles	Hemp Rope
Internal BMS Model No.	4S12V100A
Series Connection (Total How Many Batt)	4
Parallel Connection (Total How Many Batt)	4
System Connection (How Many Parallel & In Series)	4s4p

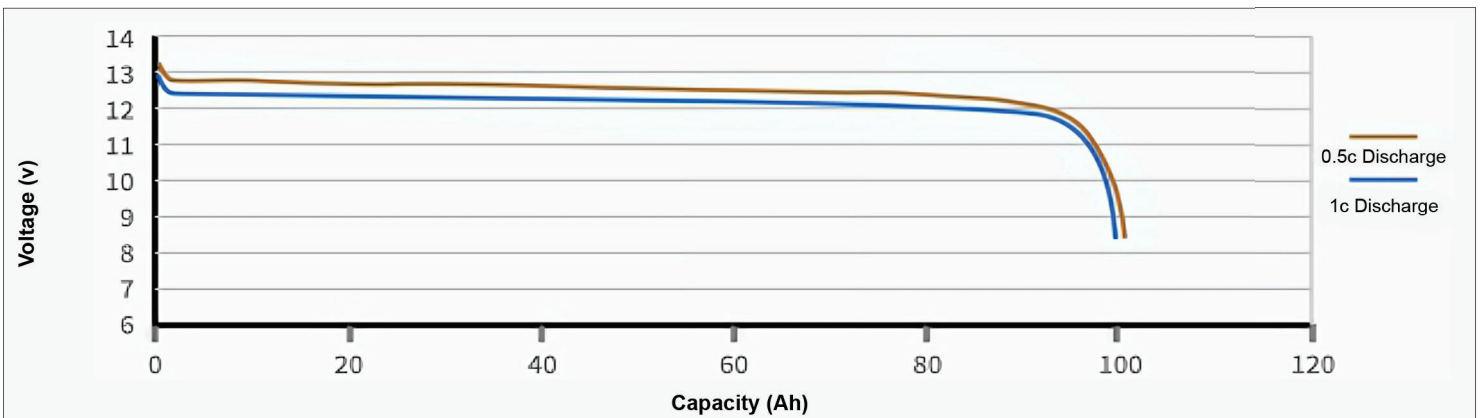
Cycle Life vs Depth of Discharge



Temperature vs Capacity



Discharge Characteristic Curve



Cycle Life Curve @1C

