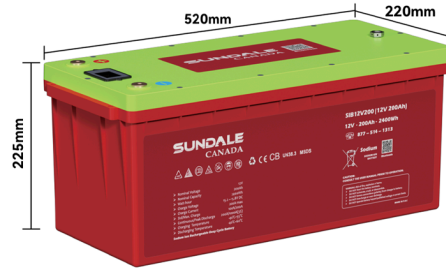
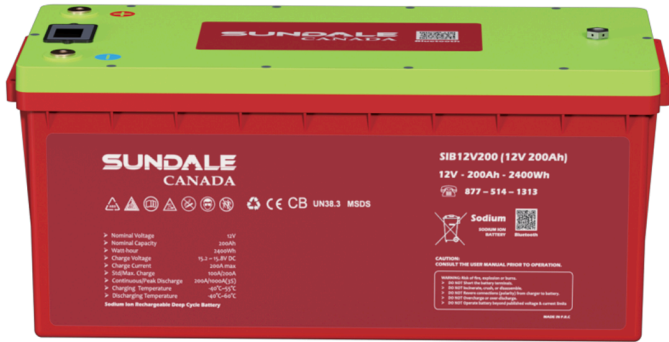


Detailed Illustration (size in mm)



L	520±1mm 20.47 inch
W	220±1mm 8.66 inch
H	225±1mm 8.86 inch
H. with Term. -	230mm 9.05 inch
NW	18.2±0.1kgs 40.12 lbs
GW	18.5 kg 40.78 lbs
Bat. size	Approx. 4D

Volts	12 Volt	Included Hardware	NA
Battery	Sodium ion battery	Warranty	3 Years

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

SOC	Stand By Voltage (± 0.2V)	Cycle Life	DOD
100%	15.6	8000	0%
70%	14.4	6000	30%
50%	12.5	4000	50%
30%	11.4	2000	70%
0%	8.0	1000	100%

SOC = State of Charge

DOD = Depth of Discharge

To have the battery serve its design life, we recommend to stop discharge at 8V

Charge

Recommended Charge Voltage at 25°C	
Stand by / Back Up / Float Use	14.4 - 14.6V
Temperature Coefficient: 0.02V/°C	
Daily Cycle / Bulk / Boost	15.4 - 15.6V
Temperature Coefficient: 0.03V/°C	

Recommended Charge Current:		
(-20 - 0) Celcius	_____	0.2C / 40A
0-10 Celcius	_____	0.25C / 50A
10-35 Celcius	_____	0.5C / 100A
35 - 45 Celcius	_____	0.33C / 66A

Maximum Charge Current 1C/200A (High charge current reduces battery life)

Surge Current Limit 1300 ± 120A (0.5s)

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	60	3.29	197
0.5	100	1.95	195

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

Charge Temperature Range	-40°C ~ 60°C
Discharge Temperature Range	-40°C ~ 60°C
Storage Temperature Range	-20°C ~ 60°C
Self-Discharge at 25°C	180 Days 50%SOC

Capacity

Nominal Capacity	200
Total Energy	2400 WH
Nominal Voltage	12 V
Battery Chemistry	NA

Design

Bluetooth (Yes Or No)	Yes
Heated (Yes Or No)	No
If Heated, at what temperature does heater start	
If Heated, at what temperature does heater cut off	
If Heated, what amps will the heater take from charging source	
Battery Size ( Group )	Approx. 4D

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	PA66
Internal BMS Model No.	ZXH-4S300A-86200
Series Connection (Total How Many Batt)	2S
Parallel Connection (Total How Many Batt)	Unlimited, recommended 4P
System Connection (How Many Parallel & In Series)	No Series Connection