XGW Tech

Sodium ion battery pack

12V50Ah

This series is a complete solution for the Replacement of lead-acid batteries.

Features:

- Long cycle life
- Wide voltage range
- Higher Power
- Fast charging
- Wider Temperature Range
- Low self-discharge rate
- Automatic protection with internal battery management system
- Support series or parallel connection, Increased Flexibility
- Maintenance free

Product renderings:

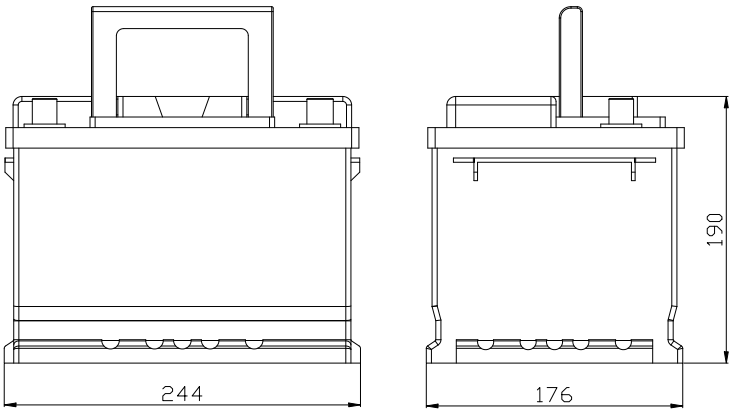


Battery Specifications:

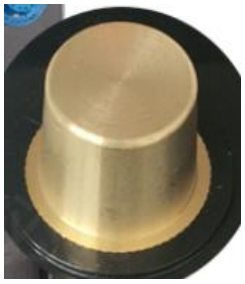
Operating Voltage(V)	8.0~16.0
Nominal Voltage(V)	12.2
Nominal Capacity(Ah)	50
Mix. capacity(Ah)	≥49
Nominal Energy(Wh)	610
Maximum power output@1S(W)	8,000
Maximum charge voltage(V)	16.0±0.2
Float charge voltage(V)	15.2~15.8
Cut-off voltage(V)	7.2~8.5
Standard charge current(A)	25
Recommended charge current(A)	≤50
Allowed Max. charge current(A)	80
Standard discharge current(A)	50
Recommended discharge current(A)	≤80
Peak discharge current@10S(A)	200
Peak discharge current@1S(A)	800
Internal Resistance(mΩ)	≤6
Charging temperature(℃)	-20~55
Discharge temperature(℃)	-40~80
Cycles(25℃,0.5C,80%DOD)	>6000
Combination structure of battery	32140-4S5P
Protection class	IP65
System weight(kg)	Approx. 8.0
Product size(L*W*H,mm)	244*176*190
Packing size(L*W*H,mm)	320*225*270

XGW Tech

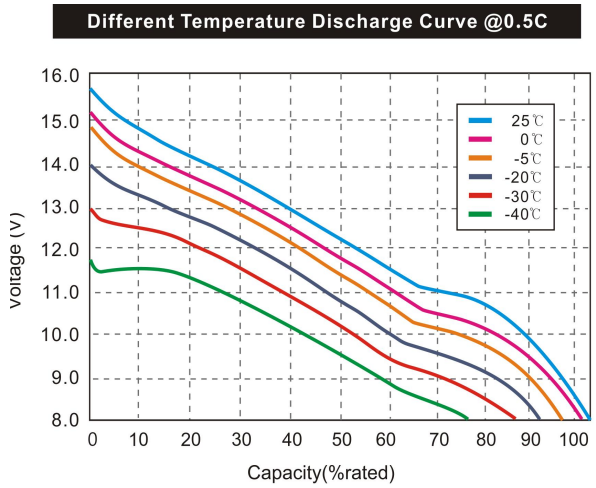
Product dimension (Unit : mm)

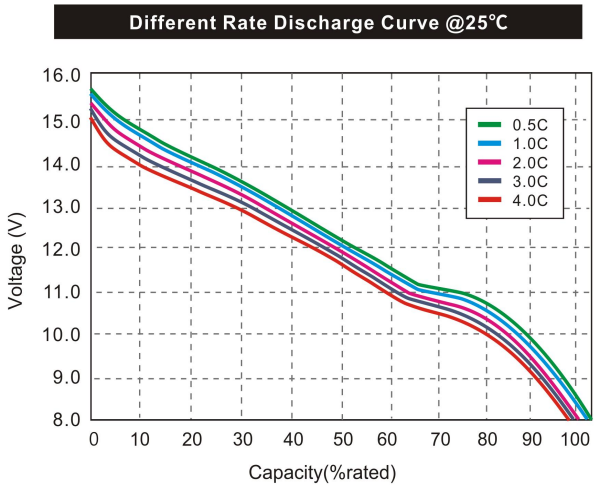


Terminal



Battery Curve:





Sodium ion battery pack SOC& Voltage

25℃ Discharge @1C		25℃ charge @0.5C	
SOC	OCV	SOC	OCV
100%	15.91	0%	8.94
90%	15.00	10%	10.21
80%	14.39	20%	11.16
70%	13.82	30%	11.54
60%	13.19	40%	11.91
50%	12.52	50%	12.57
40%	11.86	60%	13.24
30%	11.39	70%	13.87
20%	11.05	80%	14.42
10%	10.09	90%	15.01
0%	8.94	100%	15.75

Version ：202310