REXC-2V-720AH

720AH 2V Lead Carbon Battery

Specifications	2V 720Ah Lead Carbon
Nominal Voltage	2V
Rated Capacity	720Ah (120hr to 1.85V/cell @25°C)
Weight	Approx. 46.0kg
Dimensions	Length: 180mm Width: 231mm Container Height: 396mm Total Height (with terminals): 408mm
Internal Resistance	Approx. 0.23mΩ
Short-Circuit Current	8614A
Self-Discharge	The residual capacity is above 90% after 90 days storage (25°C)
Operating Temp. Range	Operation (recommended): 15°C~25°C Operation (maximum): -40°C~50°C
Max. Charging Current	180A
Max. Constant Charging Current	120A
Charge Voltage	Floating: 2.25V (25°C) Equalizing/Cycle: 2.30V (25°C)
Terminal	M8 embedded copper
Terminal Hardware Torque	>10N·m

Main Technical Advantages

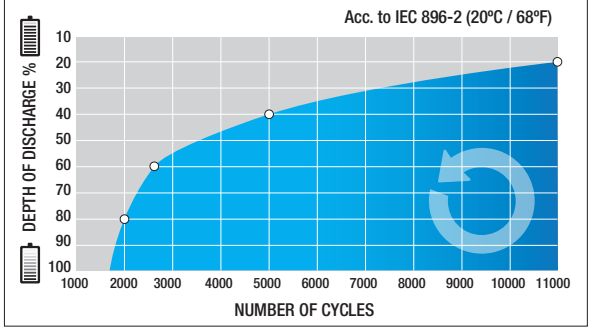
- Design life 20 years
- Combine the advantage of lead acid battery and supercapacitor
- Ideal for PSOC cycle application
- High power, rapid charge/discharge
- Reduced sulfation of negative plate, excellent recharge acceptance performance
- Waterproof, anti-salt treatment, shockproof module installation design
- Complies with IEC60896, IEC61427 standards

Applications

- Solar power generation grid/off-grid energy storage system
- Renewable energy storage
- Smart power grids and microgrids system
- Distributed energy storage system
- Hybrid energy storage systems
- Home energy storage systems
- Emergency lighting system
- Generator and battery hybrid energy system
- Other standby, cycling system

2V LEAD CARBON BATTERIES

LIFE CHARACTERISTICS OF CYCLIC USE



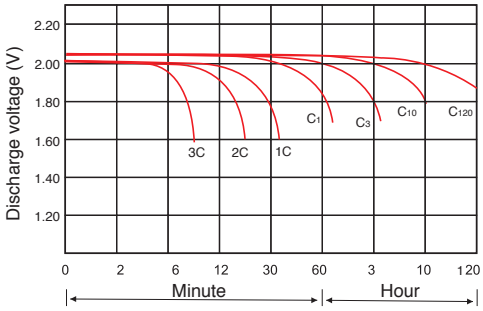
7 YEAR BATTERY WARRANTY

3 YEAR FULL REPLACEMENT WARRANTY WITH
48 MONTH PRO-RATA REPLACEMENT WARRANTY

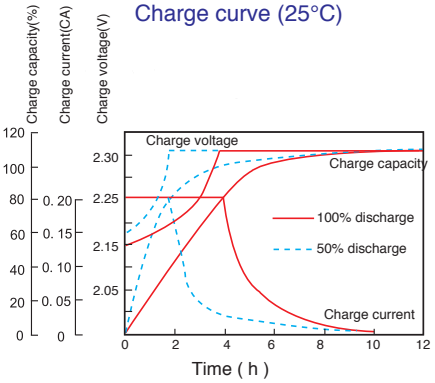
CONSTANT CURRENT DISCHARGE CHARACTERISTICS - UNITS: AMPERES (25˚C)									
End voltage per cell	1 hour	3 hours	5 hours	8 hours	10 hours	24 hours	48 hours	72 hours	120 Hours
1.75V	339.3	155.9	108.3	75.8	63.2	28.2	14.6	10.0	6.30
1.80V	317.8	151.2	105.8	74.4	61.8	27.7	14.2	9.70	6.20
1.83V	297.6	146.3	103.3	73.1	60.5	27.1	13.9	9.50	6.10
1.85V	286.9	143.4	102.3	72.3	60.1	26.8	13.8	9.50	6.00
1.88V	274.8	140.5	101.2	71.4	59.6	26.6	13.7	9.40	5.90

Discharge Data with Constant Power Units: Watts per cell (25˚C)										
End voltage per cell	15min	30min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr
1.75V	1480	1033.1	698.8	453.7	323.9	263.2	223.6	192.4	147.2	123.6
1.80V	1392	996.6	682.7	445.3	312.5	254.7	217.3	186.8	143.4	121.7
1.83V	1311	939.9	658.3	427.2	304.9	250.9	212.8	181.1	140.6	119.3
1.85V	1224	886.2	620.9	409.2	295.9	244.9	207.2	176.9	138.7	117.0
1.88V	1138	824.1	583.4	380.3	285.8	236.5	200.4	170.6	134.9	114.1

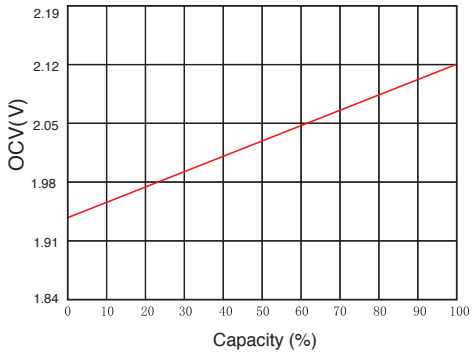
Discharge curve at different rate (25°C)



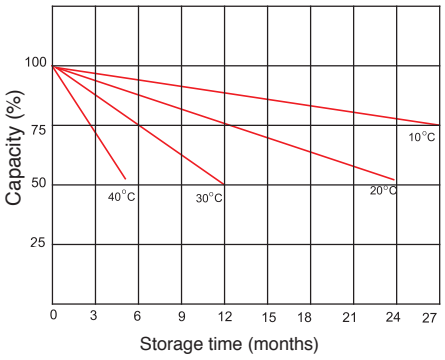
Charge curve (25°C)



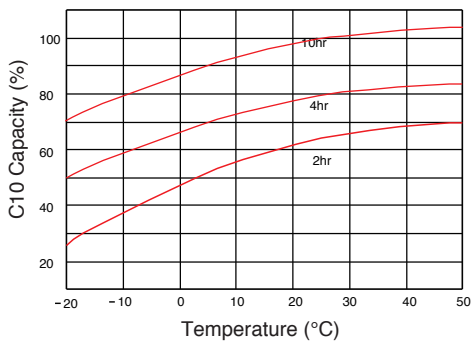
Capacity vs OCV curve



Residue capacity vs storage time



Capacity vs temperature curve



Design life vs temperature