

CB6-224(6V224Ah)

Specification

Opecification	
Cells Per Unit	3
Voltage Per Unit	6
Capacity	224Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 31.5 Kg/69.46Lbs (Tolerance ±2%)
Internal Resistance	Approx. 2.5 m Ω
Terminal	F14(M8)
Max. Discharge Current	2050A (5 sec)
Cold Cranking Ampere(CCA)	780A
Cranking Ampere(CA)	1130A
Maximum Charging Current	61.5A
Reserve Capacity	485min@25A to 1.75V/Cell(25 ℂ) 118min@75A to 1.75V/Cell(25 ℂ)
Reference Capacity	C10 205.2AH C20 225.0AH
Float Charging Voltage	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30 V~7.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



The series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the series battery offers reliable performance in high load situations and could provide competitive cycle performance. Suitable for Electric Vehicle and Golf cart; Industrial equipment, Floor machines, Forklifts, Aerial lifts, and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical equipment; and most outdoor application.





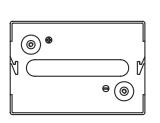


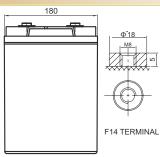


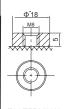


Dimensions









Length	260±2mm (10.24inches)						
Width	180±2mm (7.09 inches						
Height	245±2mm (9.65 inches						
Total Height	252±2mm (9.92 inches)						
Terminal	Value						
Terminal M5	Value 6∼7 N∗m						

Unit: mm

Constant Current Discharge Characteristics : A(25°C)

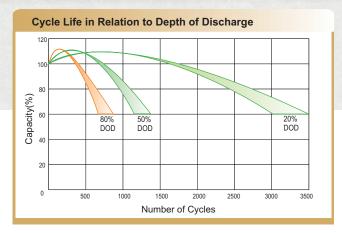
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	732.9	539.6	398.2	233.0	133.3	81.28	54.82	45.58	36.33	26.21	21.33	11.92
5.00V	711.7	513.4	390.0	229.0	130.6	80.67	54.41	45.37	36.10	26.00	21.12	11.70
5.10V	690.6	495.3	383.9	224.8	127.3	80.06	53.38	45.16	35.87	25.79	20.91	11.47
5.25V	620.1	457.1	365.5	223.1	124.6	79.45	52.13	44.74	35.42	25.57	20.71	11.25
5.40V	559.7	416.8	336.9	219.3	121.0	78.02	51.27	43.68	35.16	25.15	20.52	11.14
5.55V	477.9	372.5	302.2	205.3	116.6	74.56	50.39	41.57	34.27	24.08	20.28	10.68

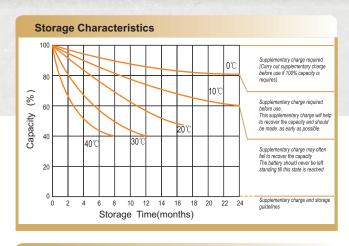
Constant Power Discharge Characteristics: W(25°C)

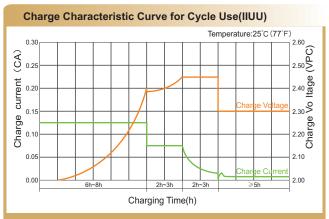
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	3866	2902	2203	1334	769.5	482.4	326.0	271.7	217.6	156.5	128.0	71.51
5.00V	3790	2813	2168	1317	768.0	480.9	324.6	271.3	216.0	155.7	127.2	70.17
5.10V	3747	2739	2151	1306	762.1	477.9	319.6	270.7	215.3	154.7	126.0	68.84
5.25V	3411	2550	2085	1312	747.1	476.5	312.5	268.2	213.2	153.4	124.8	67.50
5.40V	3107	2351	1927	1291	725.9	469.3	308.7	262.1	211.0	150.9	123.6	66.81
5.55V	2729	2146	1769	1216	700.4	449.1	303.5	249.4	206.0	144.5	122.0	64.10

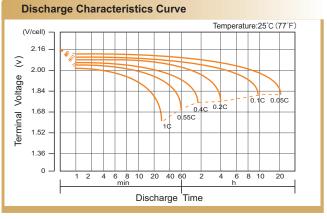


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CHARGE VOLTAGES

	Battery Voltage						
Charge Stage	12V	24V	36V	48V			
Bulk	14.6	29.2	43.8	58.4			
Absorption	14.6	29.2	43.8	58.4			
Float	13.6	27.2	40.8	54.4			
TC Factor:(-3mV°C/cell) or (-4mV°C/cell)							

Capacity Factors With Different Temperature

Batter	ry Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final D ischarge Voltage V /cell	1.75V	1.70V	1.60V		
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C		

Charge the batteries at least once every six months, if they are stored at 25 $^{\circ}$ C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Maintenance & Cautions

Cycle Service

- Avoid battery overcharge, especially in series connection use.
- ▶ Charge with recommended voltage. Ensure battery fully recharges. In general, recharge capacity should be 1.1-1.15 times discharge capacity.
- ► Effect of temperature on cycle charge voltage: -4mV/° C / Cell
- ▶ The length of cycle service will be affected by depth of discharge, ambient temperature discharge rate, and the manner in which the battery is recharged. Generally speaking, the most important factor is depth of discharge.

Float Service:

- ▶ Every month, recommend inspection of every battery's voltage.
- ▶ Every three months, recommend a one time equalization charge. Equalization charge method:

Discharge - 100% rate capacity discharge

- Charge Max. current 0.3C, constant voltage 2.4-2.45V/Cell charge 24h.
- ► Effect of temperature on float charge voltage: -3mV/°C/Cell.
- ▶ Length of service life will be affected by the number of discharge cycles depth of discharge, ambient temperature, and charging voltage