PowerStar™

CB5-6T ▶ 6V5Ah

CB series batteries use high purity raw materials and low density electrolyte to make the batteries have good cycle performance and low self-discharge rate.It is suitable for UPS,solar & wind energy, telecom system, electric power system

Industrial Batteries, State of the Art Technology

▶ Specifications :

Cells Per Unit	3
Voltage Per Unit	6
Capacity	5Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 0.8kg(1.76 lbs)
Maximum Discharge Current	50A(5sec)
Internal Resistance	Approx. 150 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	6.75 to 6.9 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	1.25A
Equalization and Cycle Service	7.2 to 7.5 VDC/unit Average at 25°C (77°F)
Self Discharge	Can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Spring Terminal
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

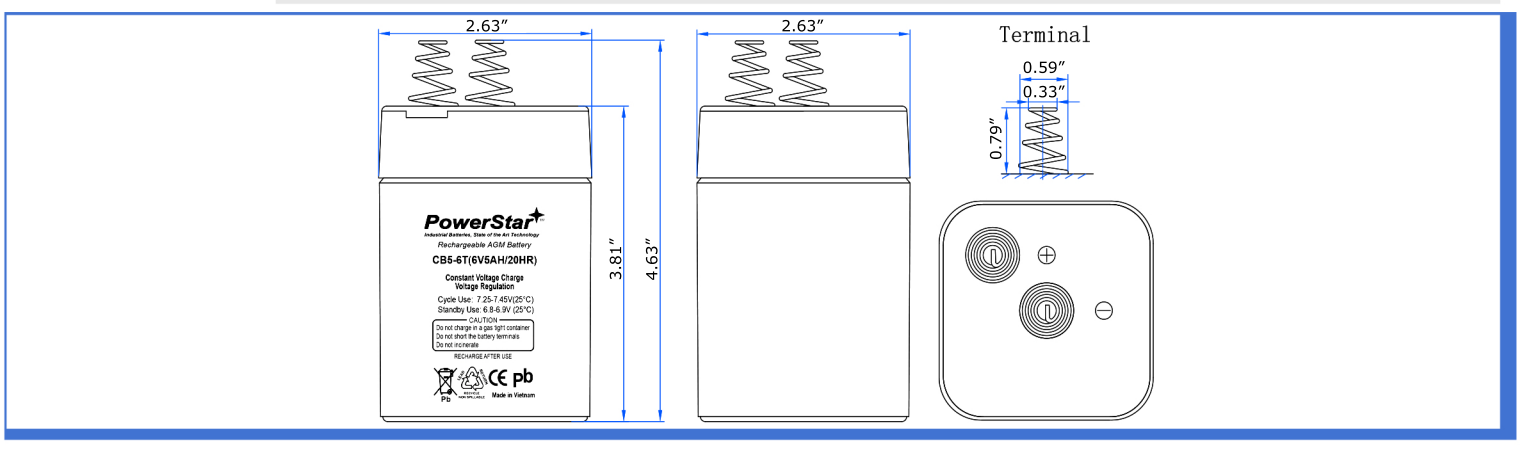
IT1720HL22031803

VRLA batteries are certified by ISO 9001, ISO14001 & OHSAS18001.

▶ Dimensions :

Unit: inches

Overall Height(H)	Container height (h)	Length (L)	Width (W)
4.63″	3.81″	2.63″	2.63″



Constant Current Discharge Characteristics Unit:A (25℃,77℉)

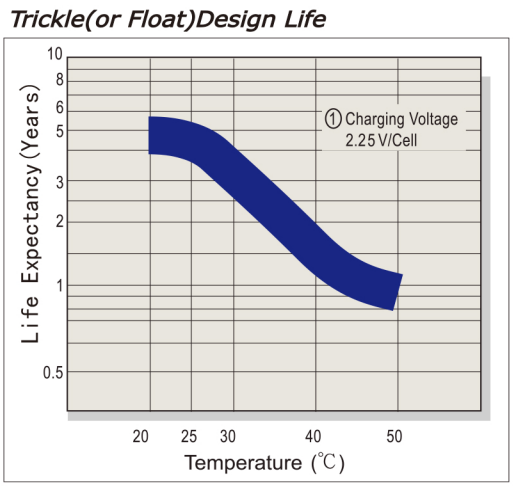
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	15.6	9.2	5.28	3.03	1.23	0.836	0.474	0.254
1.67V	15.3	9.0	5.24	2.99	1.22	0.830	0.472	0.253
1.7V	15.1	8.8	5.19	2.96	1.21	0.824	0.469	0.252
1.75V	14.4	8.4	5.09	2.89	1.19	0.811	0.465	0.250
1.8V	12.9	7.8	4.89	2.75	1.15	0.786	0.455	0.245
1.85V	10.0	6.5	4.51	2.52	1.05	0.732	0.430	0.235

Constant Power Discharge Characteristics Unit:W (25℃,77℉)

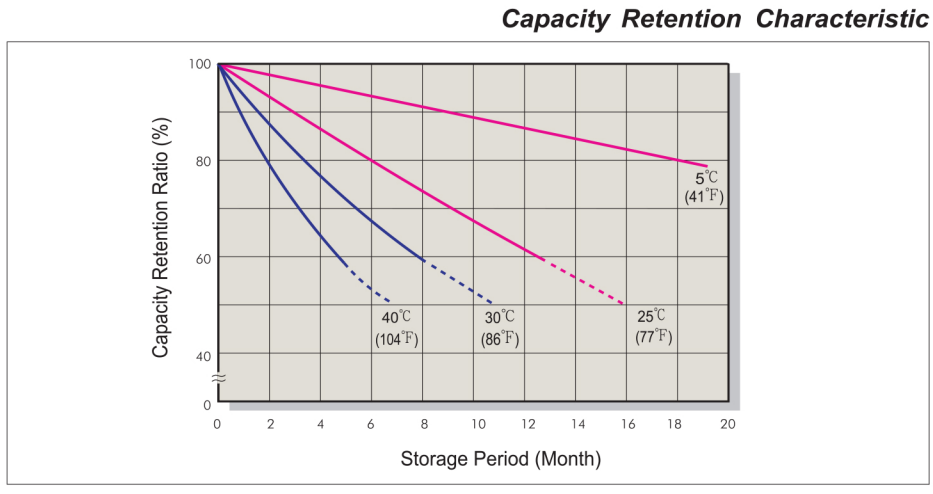
F.V/Time	5min	15min	30min	1h	3h	5h	10h	20h
1.60V	27.0	16.1	10.21	5.75	2.42	1.599	0.933	0.503
1.67V	25.8	15.3	10.14	5.70	2.40	1.594	0.928	0.502
1.7V	24.9	14.8	10.07	5.66	2.38	1.584	0.922	0.500
1.75V	22.8	13.7	9.90	5.57	2.34	1.561	0.912	0.496
1.8V	19.6	12.2	9.52	5.39	2.26	1.508	0.893	0.487
1.85V	15.3	10.2	8.78	5.01	2.08	1.428	0.851	0.469

Ratings presented herein are subject to revision without notice.

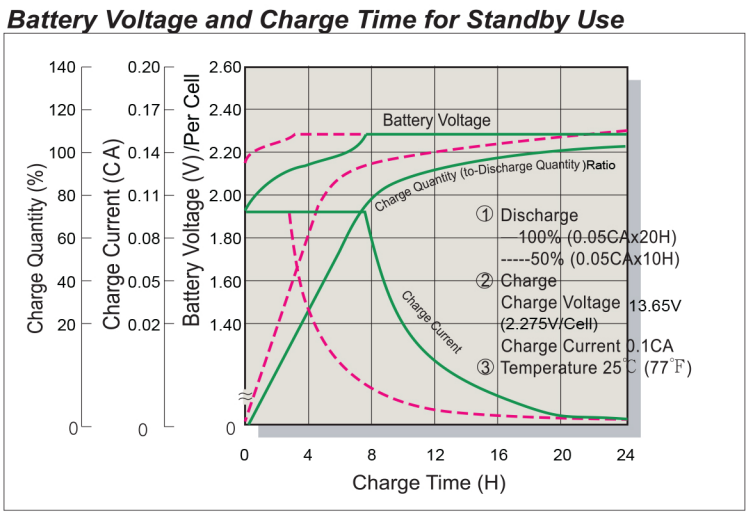
Trickle(or Float)Design Life



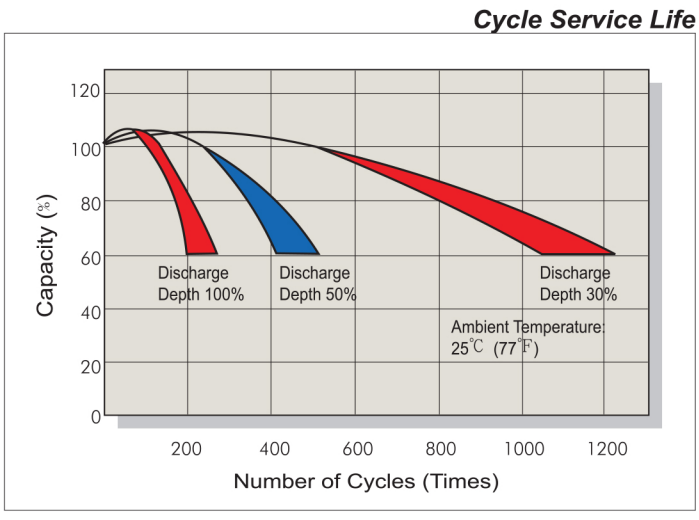
Capacity Retention Characteristic



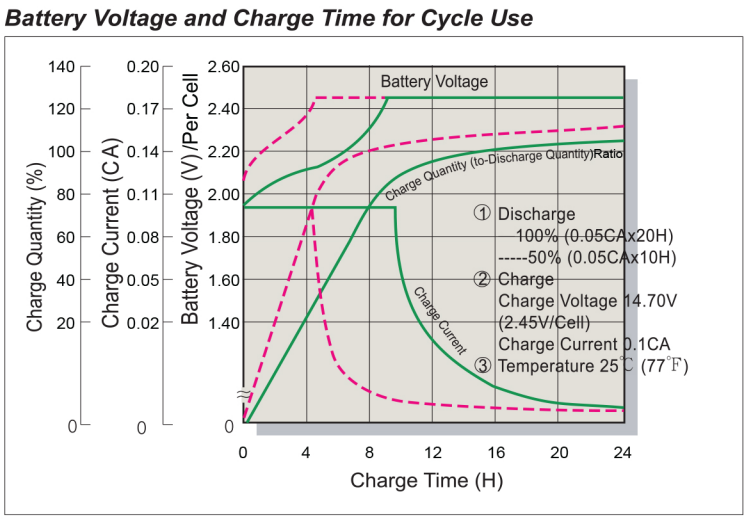
Battery Voltage and Charge Time for Standby Use



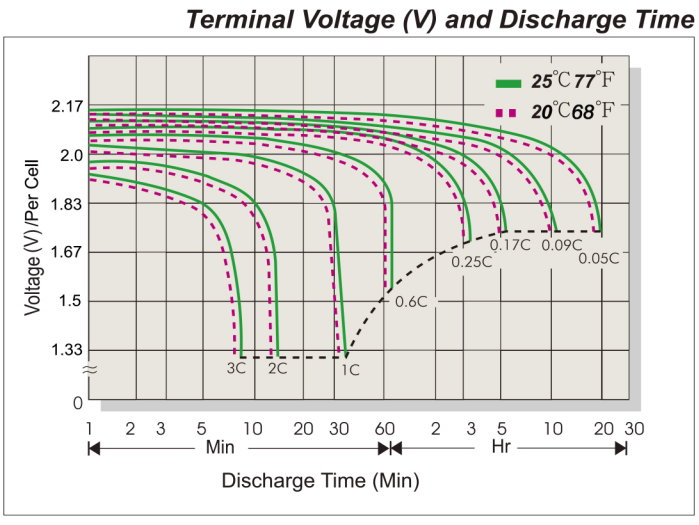
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25℃(77℉)	2.45	2.40~2.50	0.3C
Standby	25℃(77℉)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40 ℃	102%
25 ℃	100%
0 ℃	85%
-15 ℃	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%