



AGM12-60 ▶ 12V60Ah

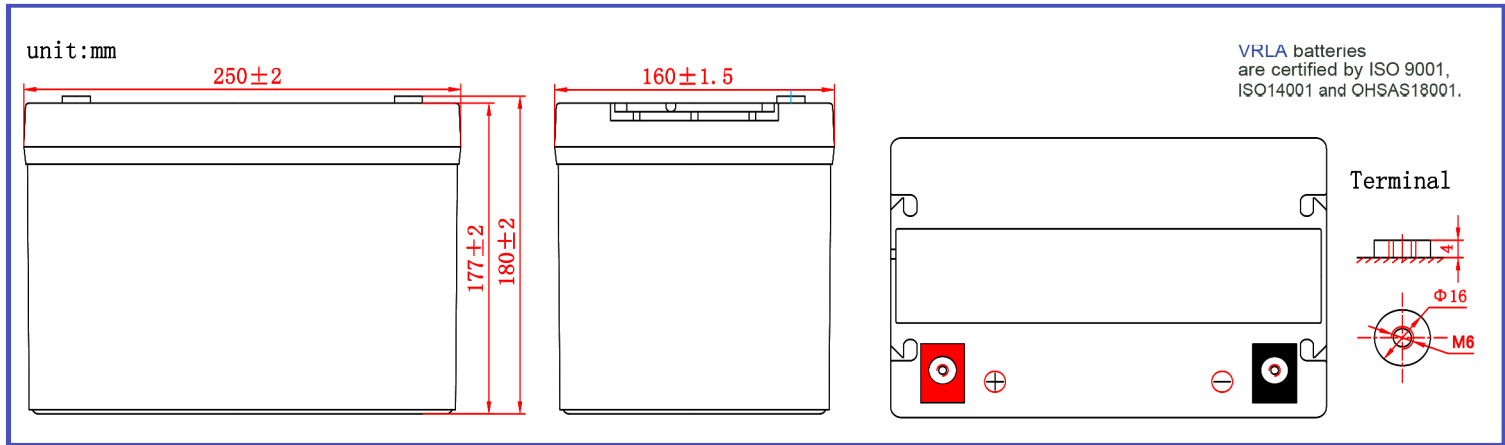
CB series batteries use high purity raw materials and low density electrolyte to make the batteries have good cycle performance and low self-discharge rate. It is suitable for UPS, telecom system, electric power system

► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	60Ah @20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 17.4 kg (38.28 lbs)
Maximum Discharge Current	720A (5 sec)
Internal Resistance	Approx 7mΩ
Operating Temperature Range	Discharge: -15°C to 50°C (5°F to 122°F) Charge: -15°C to 40°C (5°F to 104°F) Storage: -15°C to 40°C (5°F to 104°F)
Nominal Operating Temperature Range	25°C ±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C(77°F)
Recommended Maximum Charging Current Limit	18A
Equalization & Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C(77°F)
Self Discharge	PowerStar batteries 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
Terminals	Thread lead alloy recessed terminal to accept M6 bolt
Container Material	ABS (UL 94-HB)

► Dimensions :

Unit: mm	Overall Height (H)	Container height (h)	Length (L)	Width (W)
	180±2	177±2	250±2	160±1.5



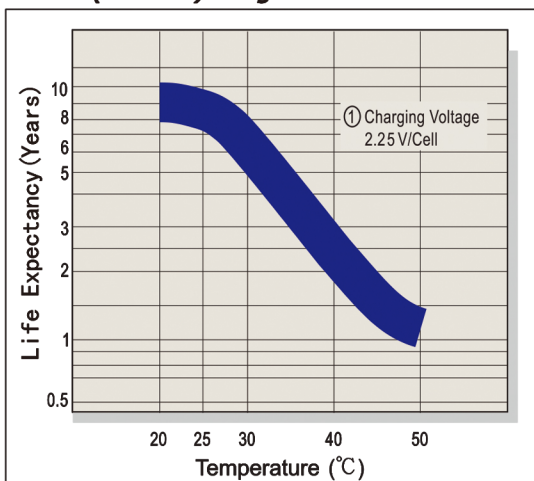
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	128.0	96.4	59.4	35.6	15.0	10.0	5.71	3.04
1.67V	124.3	94.0	58.4	35.1	14.9	9.9	5.70	3.04
1.7V	122.1	92.2	57.6	34.7	14.7	9.9	5.69	3.03
1.75V	115.0	87.1	55.6	33.6	14.5	9.7	5.66	3.00
1.8V	105.1	81.2	53.0	32.2	14.0	9.4	5.57	2.95
1.85V	91.2	71.3	49.6	29.8	12.8	8.8	5.35	2.86

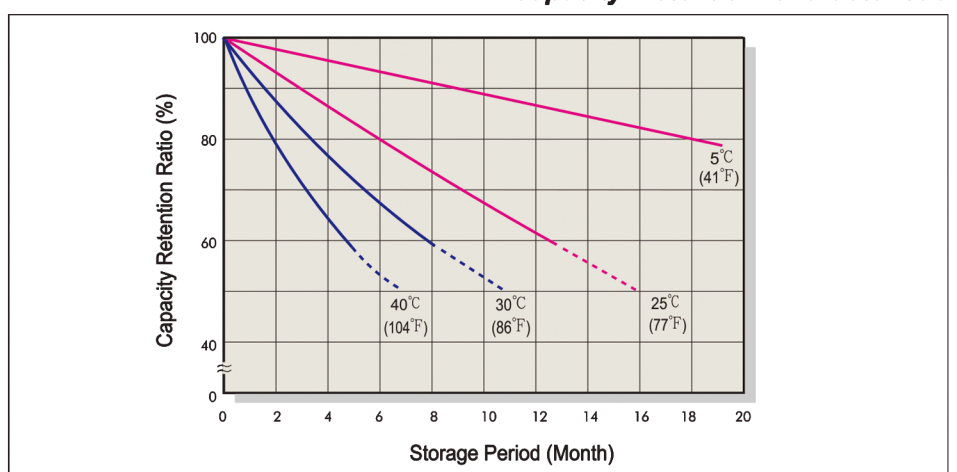
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	186.2	155.3	112.6	67.7	29.5	19.5	11.24	5.99
1.67V	176.6	147.2	110.7	66.9	29.3	19.4	11.19	5.96
1.7V	169.2	141.1	109.5	66.4	29.0	19.4	11.17	5.94
1.75V	153.1	128.1	106.0	65.0	28.5	19.1	11.11	5.89
1.8V	134.2	113.0	101.2	62.8	27.5	18.6	10.96	5.81
1.85V	109.8	93.5	94.7	59.3	25.5	17.5	10.59	5.65

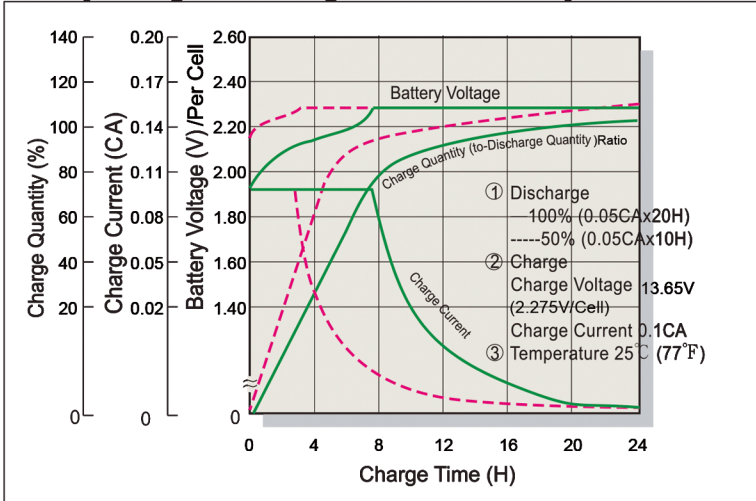
Trickle(or Float)Design Life



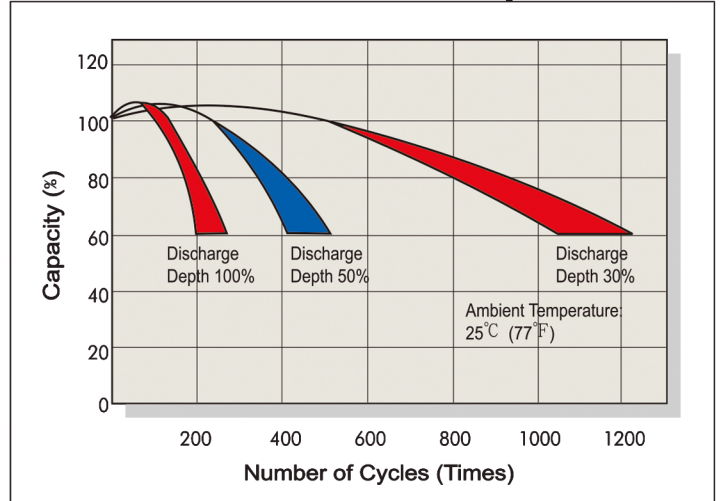
Capacity Retention Characteristic



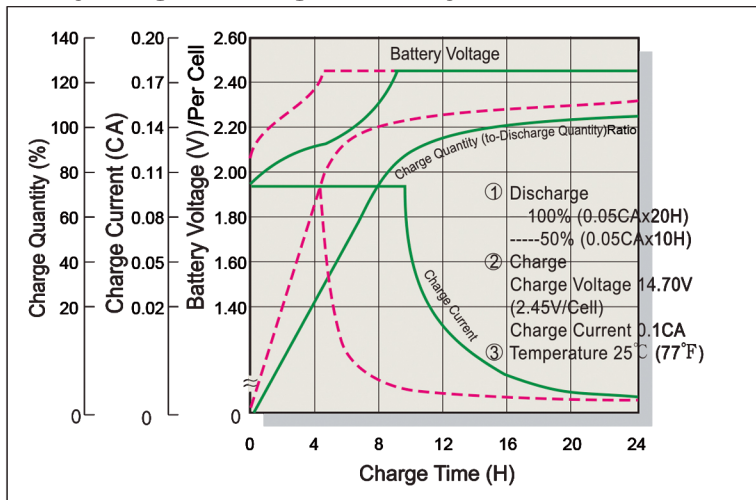
Battery Voltage and Charge Time for Standby Use



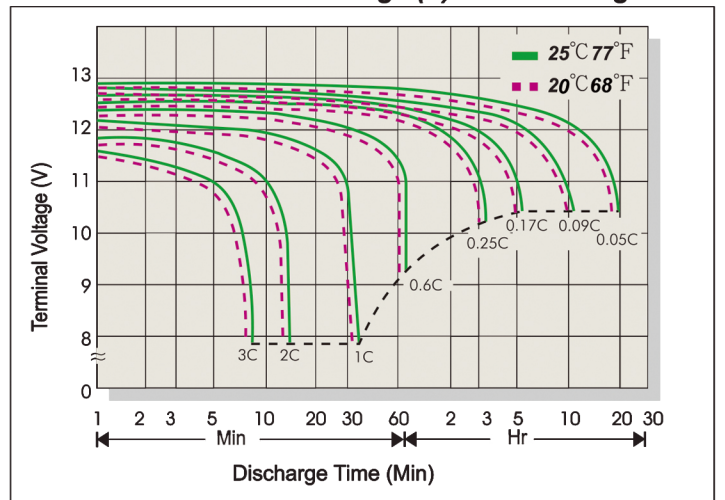
Cycle Service Life



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°C(77°F)	2.45	2.40~2.50	0.3C
Standby	25°C(77°F)	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 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

Self-discharge Characteristics

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