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CB55-12A ▶ 12V55Ah

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	55Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 16.5 kg(36.3 lbs)
Maximum Discharge Current	715A(5sec)
Internal Resistance	Approx. 6.5 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	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	16.5A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	HENGGLI 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.
Terminal	L terminal to accept M8 nut & bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



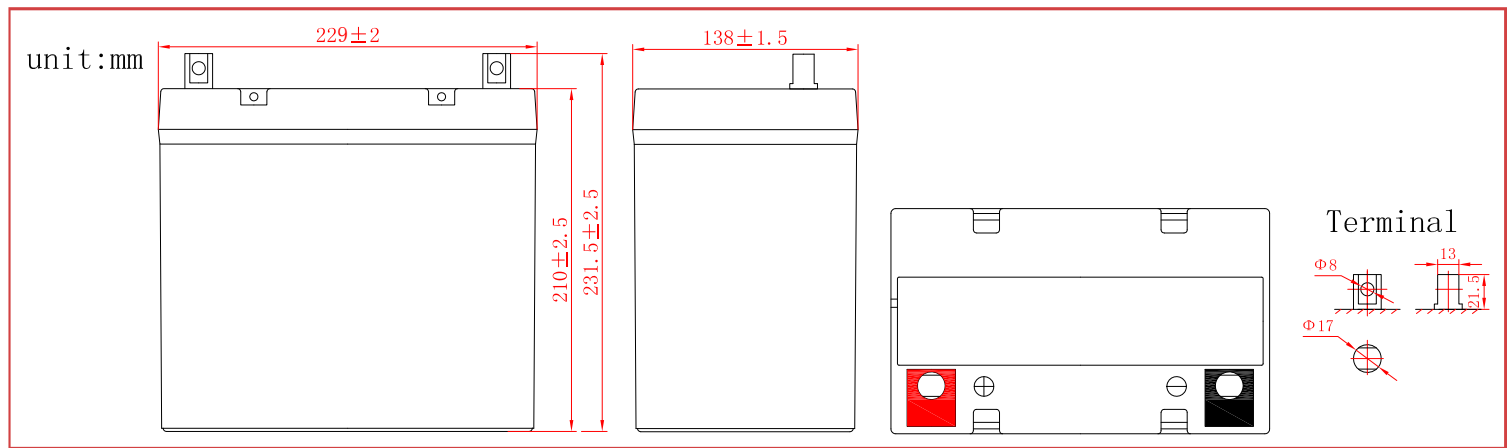
IT1720HL22031803

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

► Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
231.5±2.5	210±2.5	229±2	138±1.5



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

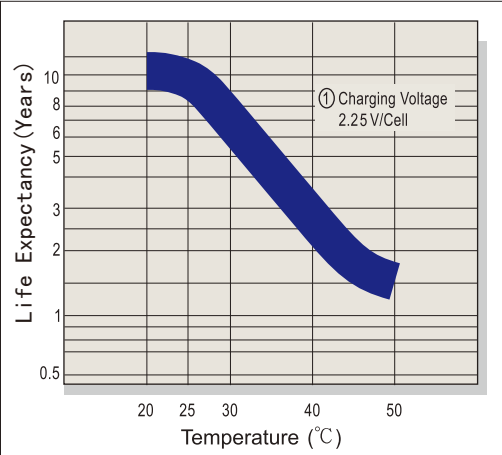
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	126.4	95.2	58.7	35.18	14.51	9.86	5.639	3.007
1.67V	122.8	92.8	57.7	34.69	14.38	9.81	5.630	2.999
1.7V	120.6	91.1	56.9	34.29	14.28	9.75	5.621	2.989
1.75V	113.7	86.1	54.9	33.19	14.01	9.60	5.590	2.963
1.8V	103.9	80.2	52.4	31.78	13.51	9.33	5.501	2.918
1.85V	90.1	70.5	49.0	29.47	12.41	8.67	5.286	2.820

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

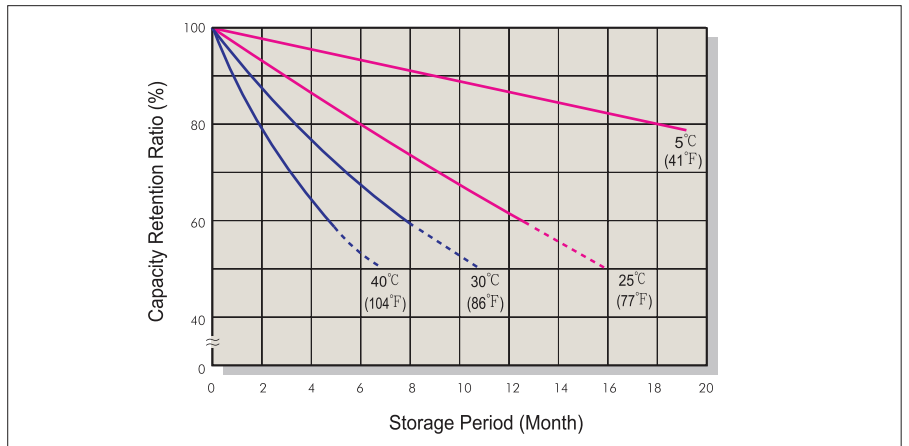
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	234.1	188.7	111.2	66.88	28.61	19.25	11.098	5.966
1.67V	222.1	178.9	109.3	66.07	28.32	19.20	11.056	5.949
1.7V	212.7	171.5	108.1	65.57	28.11	19.13	11.035	5.936
1.75V	192.5	155.7	104.7	64.25	27.58	18.89	10.971	5.890
1.8V	168.7	137.3	99.9	62.00	26.60	18.38	10.823	5.804
1.85V	138.1	113.7	93.5	58.57	24.71	17.27	10.455	5.609

Ratings presented herein are subject to revision without notice. Please refer to www.hengglivn.com to confirm the latest version.

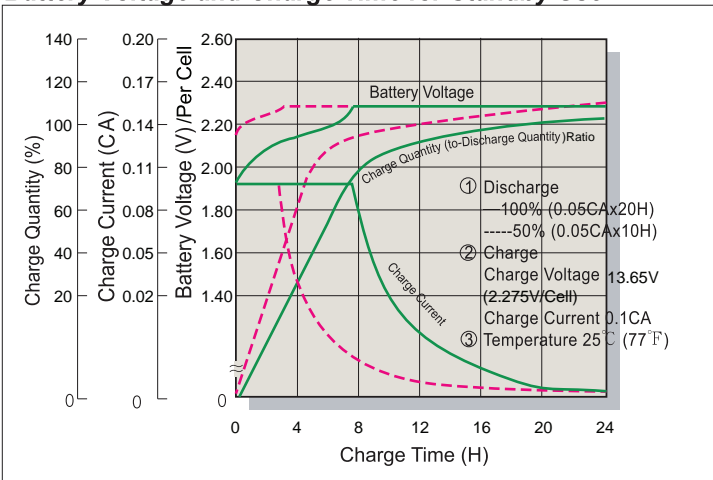
Trickle(or Float)Design Life



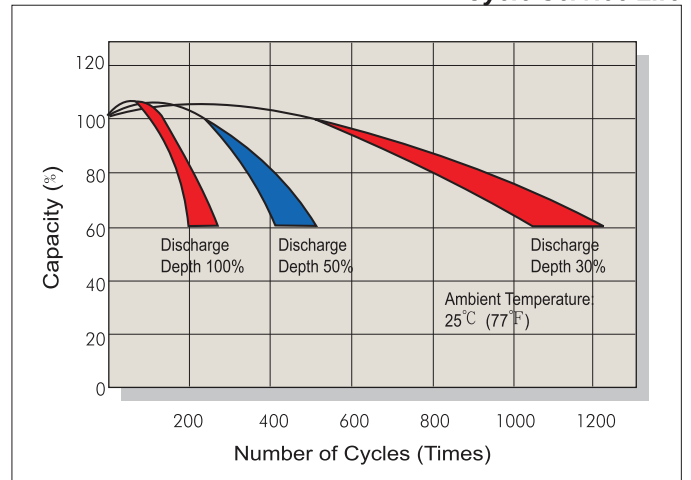
Capacity Retention Characteristic



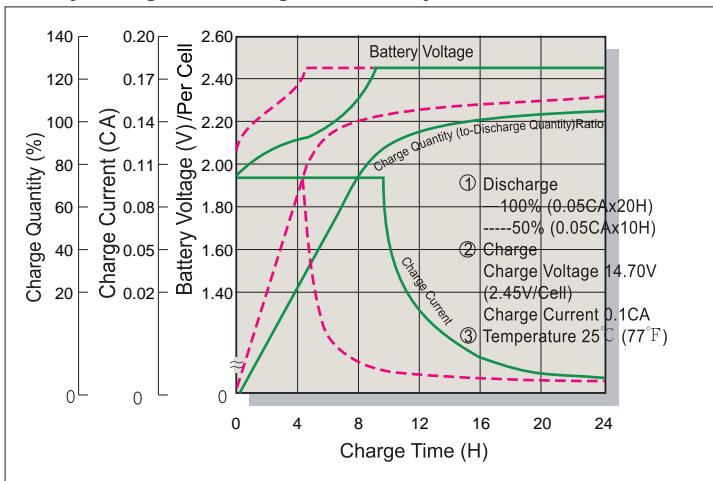
Battery Voltage and Charge Time for Standby Use



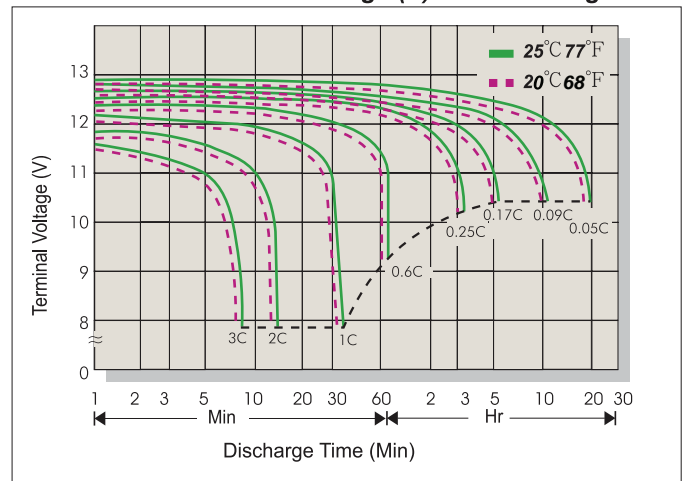
Cycle Service Life



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%