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CNFJ85-12A ▶ 12V85Ah

CNFJ series is a deep-cycle battery using AGM hybrid GEL Technology, long life, suitable for standby and energy storage, As with all HENGLI batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	85Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 23 kg(50.6 lbs)
Maximum Discharge Current	850A (5sec)
Internal Resistance	Approx. 5.5 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	25A
Equalization and Cycle Service	14.4 to 14.9 VDC/unit Average at 25°C (77°F)
Self Discharge	HENGLI 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	Thread lead alloy recessed terminal to accept M6 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



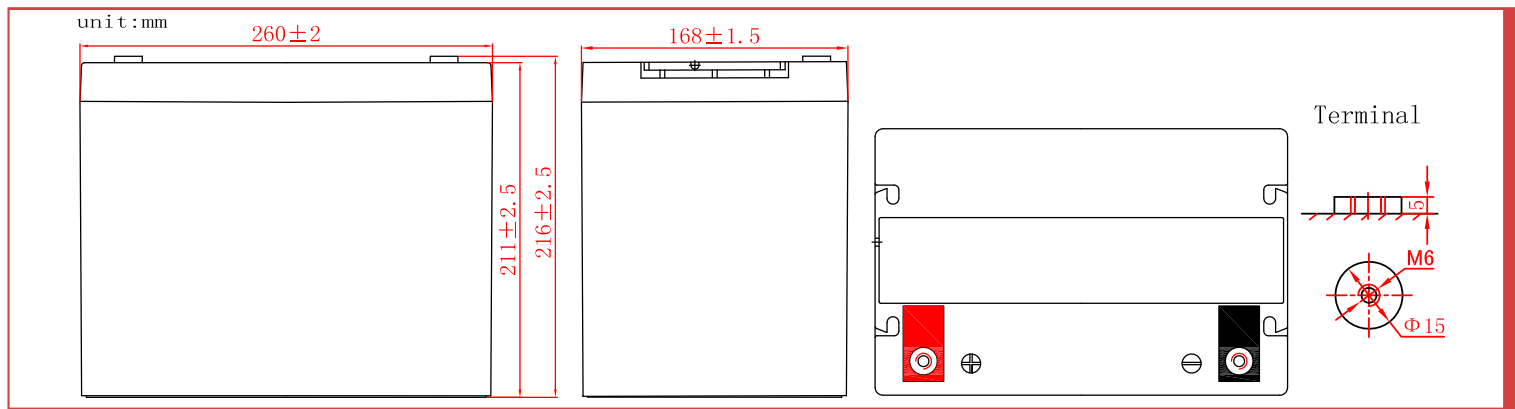
IT1720HL22031803

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

► Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
216±2.5	211±2.5	260±2	168±1.5



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

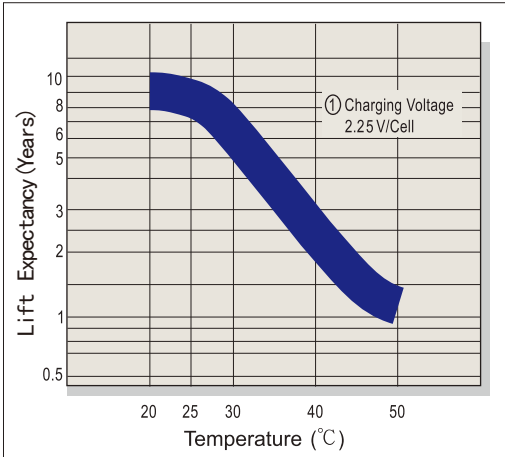
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	179	135	83.6	50.3	22.0	14.14	8.04	4.31
1.67V	174	132	82.3	49.8	21.9	14.07	8.02	4.30
1.7V	168	128	80.3	48.9	21.7	13.97	7.98	4.28
1.75V	159	122	77.8	47.6	21.3	13.76	7.90	4.25
1.8V	147	113	74.4	45.5	20.5	13.35	7.76	4.17
1.85V	127	100	69.8	42.1	18.8	12.43	7.52	4.04

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

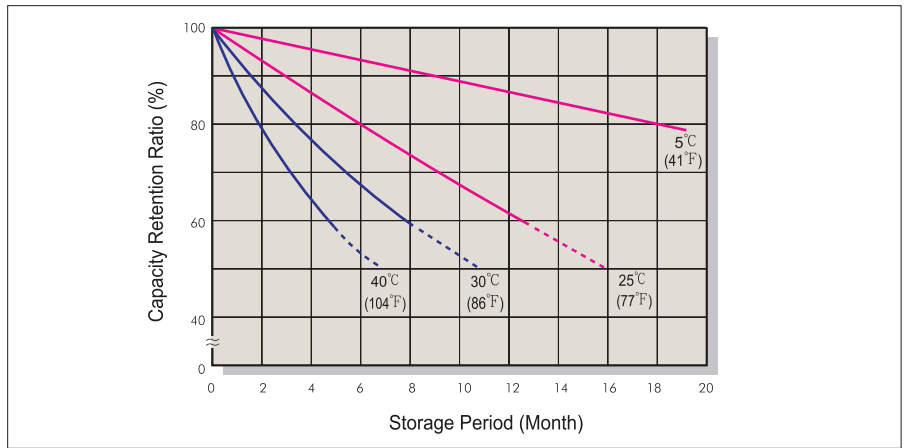
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	341	275	161.7	95.7	43.4	27.6	15.82	8.55
1.67V	324	261	159.1	94.7	43.1	27.5	15.75	8.54
1.7V	302	244	155.9	93.4	42.7	27.4	15.65	8.51
1.75V	276	223	151.4	91.5	41.9	27.1	15.50	8.44
1.8V	242	197	144.9	88.7	40.3	26.3	15.26	8.30
1.85V	201	166	135.8	83.8	37.5	24.7	14.87	8.04

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

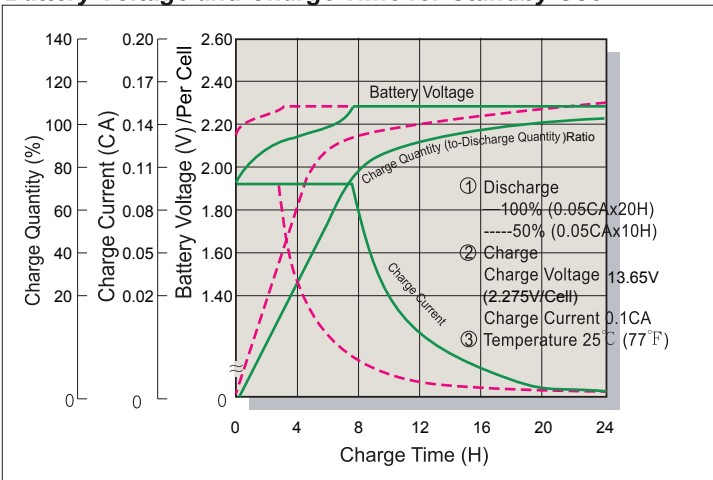
Trickle(or Float)Design Life



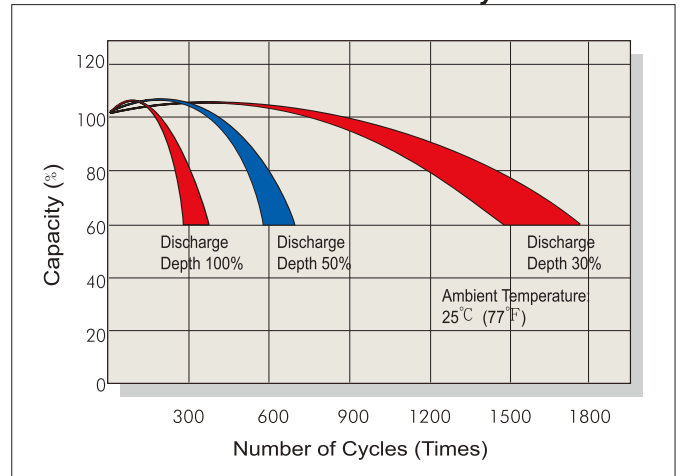
Capacity Retention Characteristic



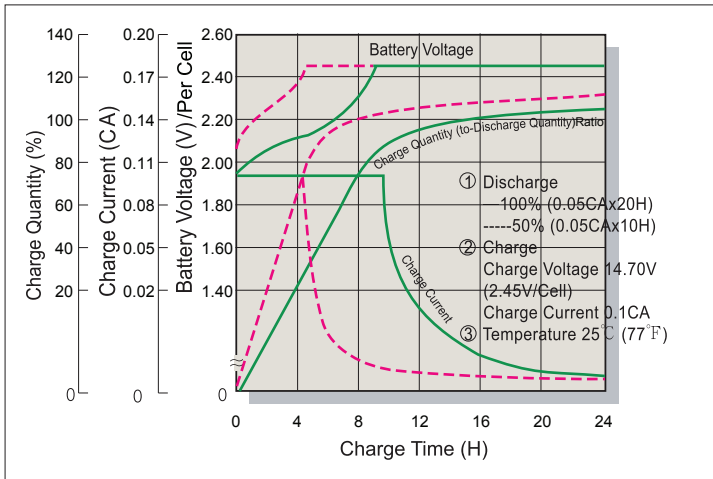
Battery Voltage and Charge Time for Standby Use



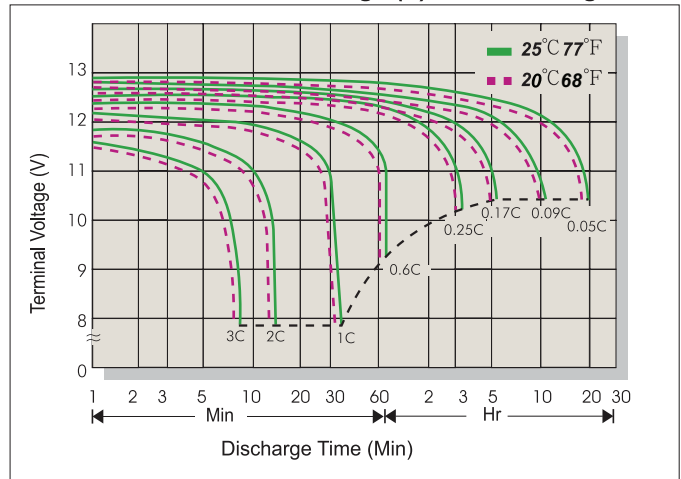
Cycle Service Life



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 (10HR)

Temperature	Dependency of Capacity (10HR)
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%