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CNFJ40-12B ▶ 12V40Ah

CNFJ series is a battery with AGM hybrid GEL technology. It has a long service life and is suitable for standby and energy storage. Like all Baace batteries, it can be charged, efficient, leakproof and maintenance free.



► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	40Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 13.5 kg(29.7 lbs)
Maximum Discharge Current	400A (5sec)
Internal Resistance	Approx. 9 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	12A
Equalization and Cycle Service	14.4 to 14.9 VDC/unit Average at 25°C (77°F)
Self Discharge	Baace 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.



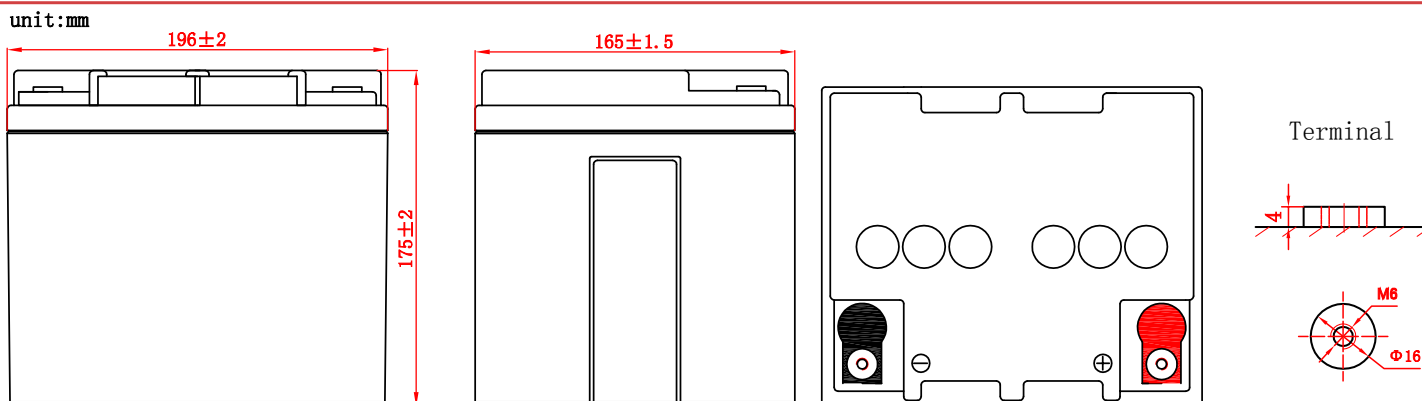
IT1720HL22031803

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

► Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
175±2	175±2	196±2	165±1.5



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

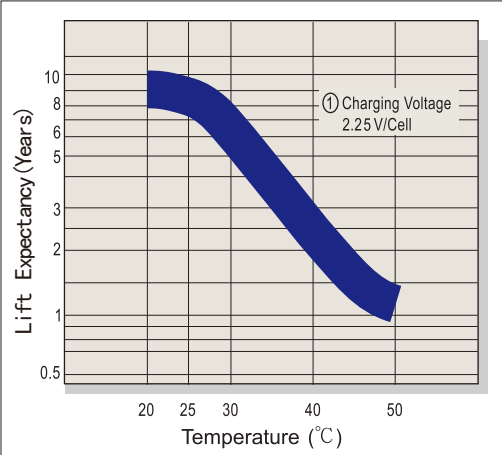
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	94	71	43.5	26.0	11.4	7.28	4.14	2.22
1.67V	91	69	42.8	25.7	11.3	7.25	4.13	2.22
1.7V	88	67	41.8	25.3	11.2	7.20	4.11	2.21
1.75V	84	64	40.5	24.6	11.0	7.09	4.07	2.19
1.8V	77	60	38.7	23.5	10.6	6.88	4.00	2.15
1.85V	67	53	36.4	21.8	9.7	6.41	3.87	2.08

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

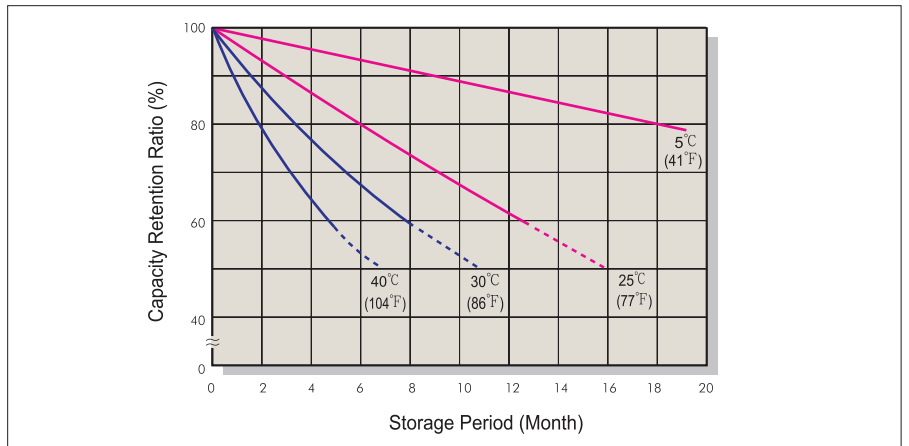
F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	176	142	84.1	49.4	22.5	14.2	8.15	4.40
1.67V	167	134	82.8	48.9	22.3	14.2	8.11	4.40
1.7V	156	126	81.1	48.3	22.1	14.1	8.06	4.38
1.75V	142	115	78.8	47.3	21.7	14.0	7.99	4.35
1.8V	125	102	75.4	45.9	20.8	13.5	7.86	4.28
1.85V	104	85	70.8	43.3	19.4	12.8	7.66	4.14

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

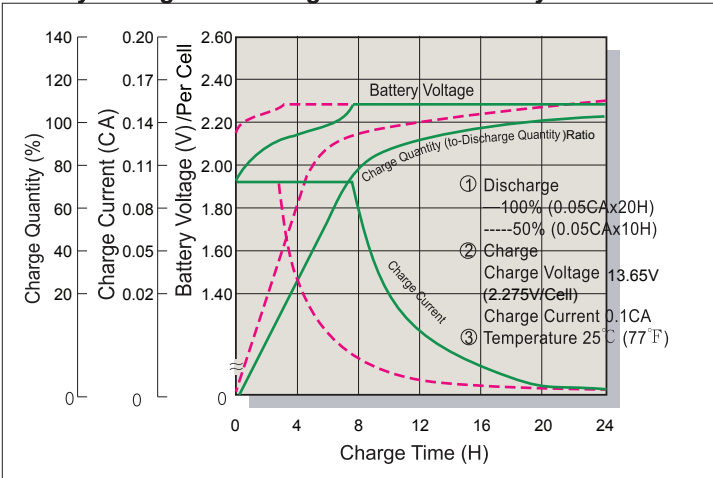
Trickle(or Float)Design Life



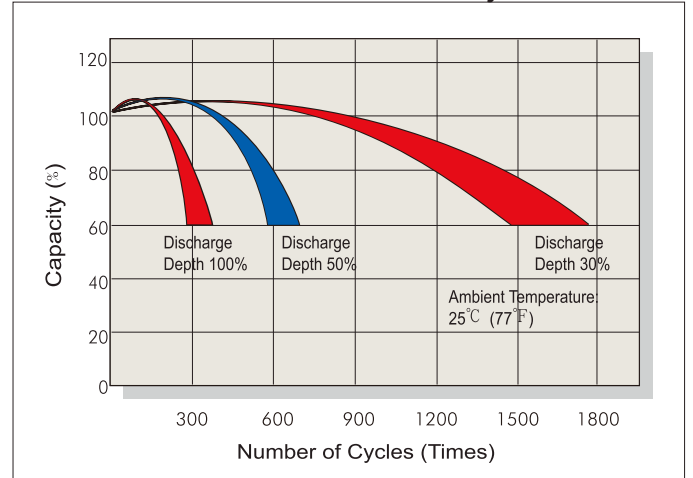
Capacity Retention Characteristic



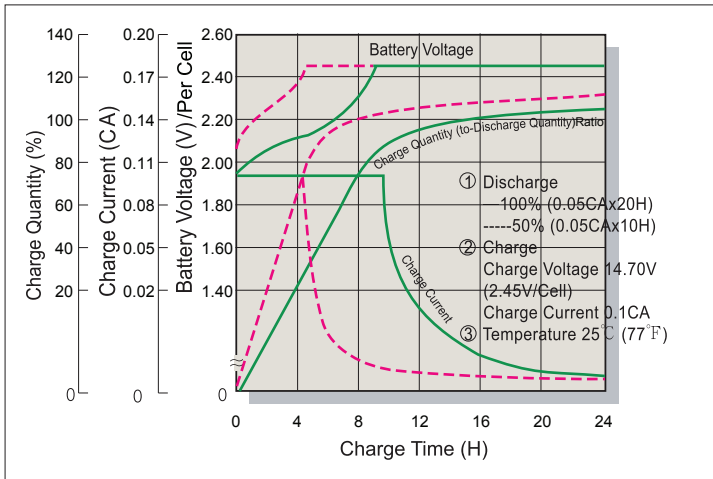
Battery Voltage and Charge Time for Standby Use



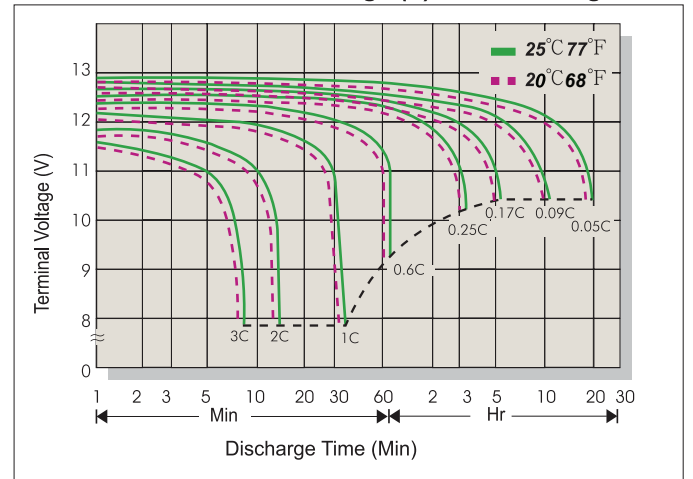
Cycle Service Life



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 (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%