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CNFJ110-12A ▶ 12V110Ah

CNFJ series is a deep-cycle battery using AGM hybrid GEL Technology, long life, suitable for standby and energy storage. Front terminals make the installation, maintenance and supervision easy. 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	110Ah @ 20hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 30.5 kg(64.2 lbs)
Maximum Discharge Current	1100A (5sec)
Internal Resistance	Approx. 7.5mΩ
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	27A
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.



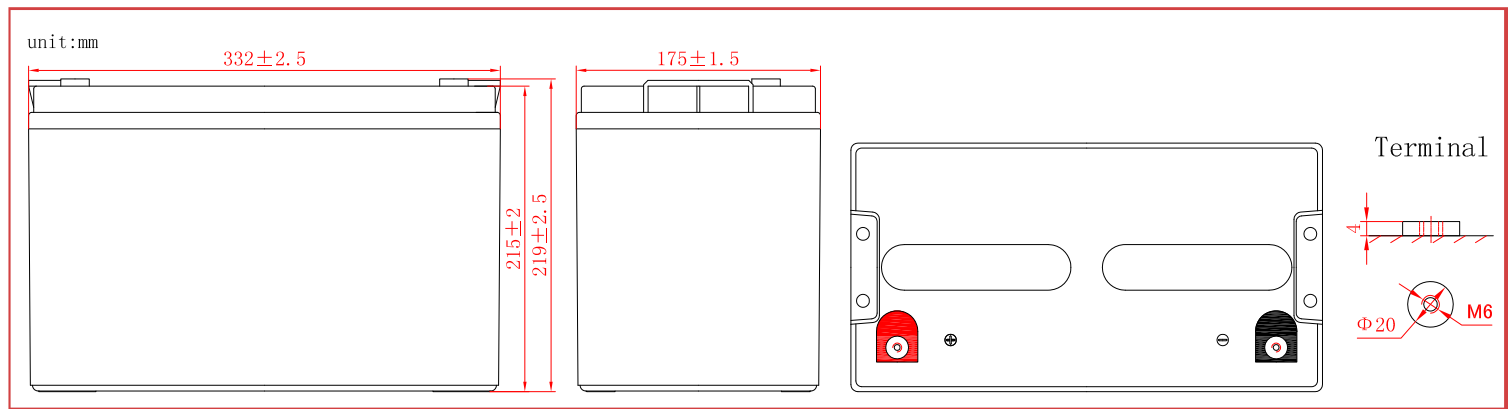
IT1720HL22031803

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

► Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
219±2.5	215±2.5	332±2.5	175±1.5



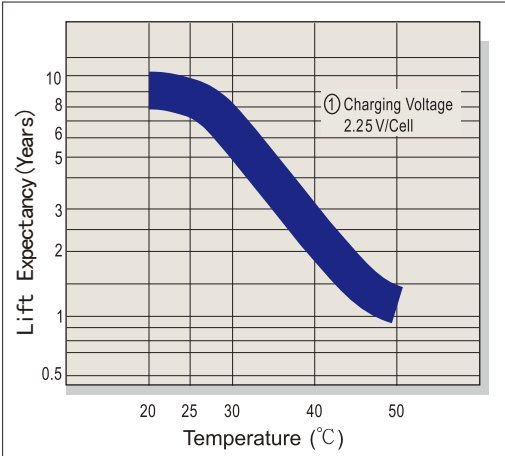
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	233	176	109.4	66.1	28.9	18.61	10.58	5.67
1.67V	227	171	107.6	65.4	28.8	18.53	10.55	5.67
1.7V	219	166	105.1	64.3	28.5	18.39	10.51	5.64
1.75V	207	158	101.8	62.5	27.9	18.11	10.40	5.59
1.8V	190	147	97.3	59.7	26.9	17.57	10.21	5.50
1.85V	165	129	91.2	55.4	24.7	16.37	9.90	5.32

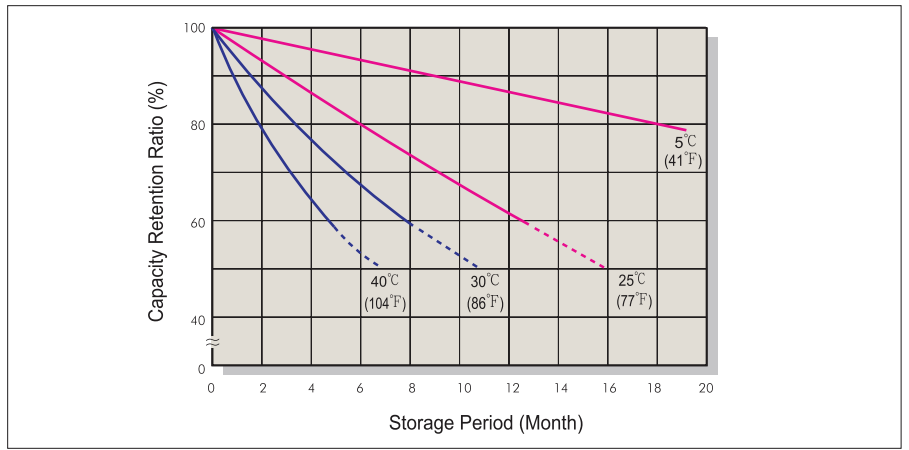
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	449	362	211.4	125.7	57.0	36.3	20.83	11.26
1.67V	426	343	208.1	124.3	56.6	36.3	20.73	11.24
1.7V	398	321	203.9	122.6	56.0	36.1	20.60	11.20
1.75V	363	293	198.0	120.2	55.0	35.6	20.41	11.11
1.8V	319	260	189.4	116.5	52.9	34.6	20.09	10.93
1.85V	265	218	177.5	110.0	49.2	32.6	19.58	10.58

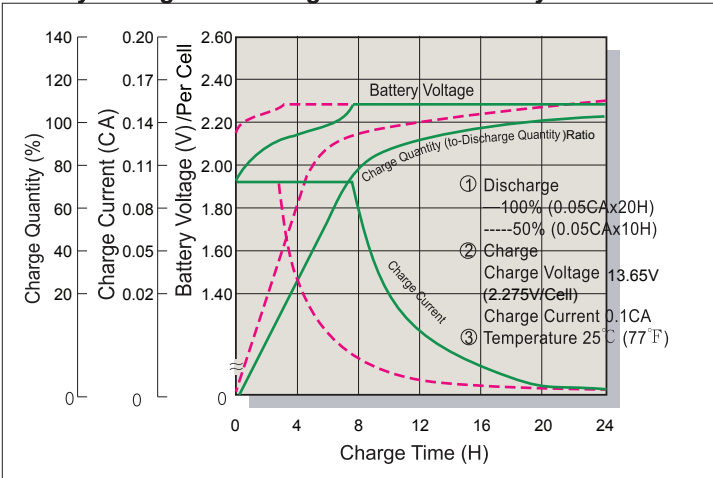
Trickle(or Float)Design Life



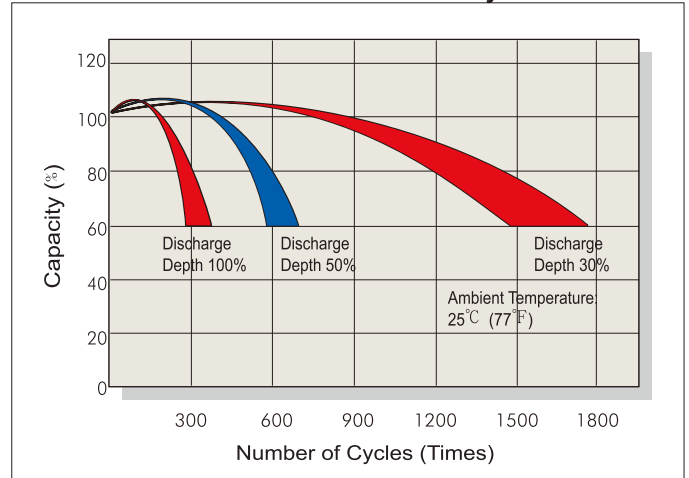
Capacity Retention Characteristic



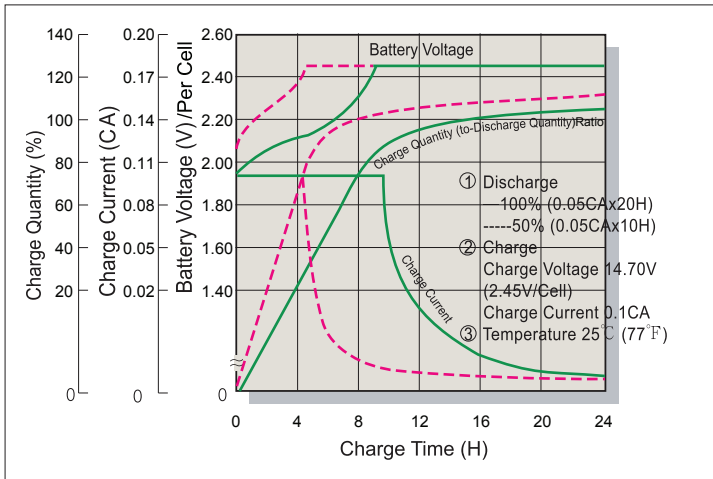
Battery Voltage and Charge Time for Standby Use



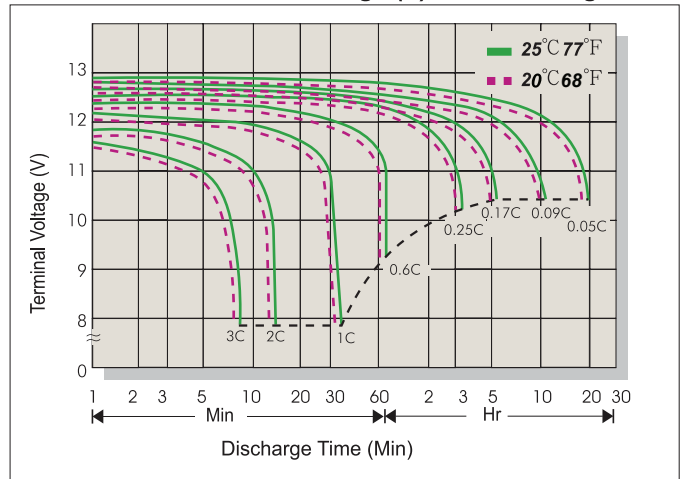
Cycle Service Life



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	0.25C
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%