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Liftech

CB200-12A ▶ 12V200Ah

CB200-12A is a general purpose battery up to 10 years in standby service or more than 260 cycles at 100% discharge in cycle service . As with all Liftech batteries, all are rechargeable , highly efficient , leak proof and maintenance free.



► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah @ 20hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 51.5 kg(112.67 lbs)
Maximum Discharge Current	1600A(5sec)
Internal Resistance	Approx. 2.8 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	40A
Equalization and Cycle Service	14.4 to 14.8 VDC/unit Average at 25°C (77°F)
Self Discharge	This 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	M8
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

UL®
MH 27774-1

CE
CTK20141211018

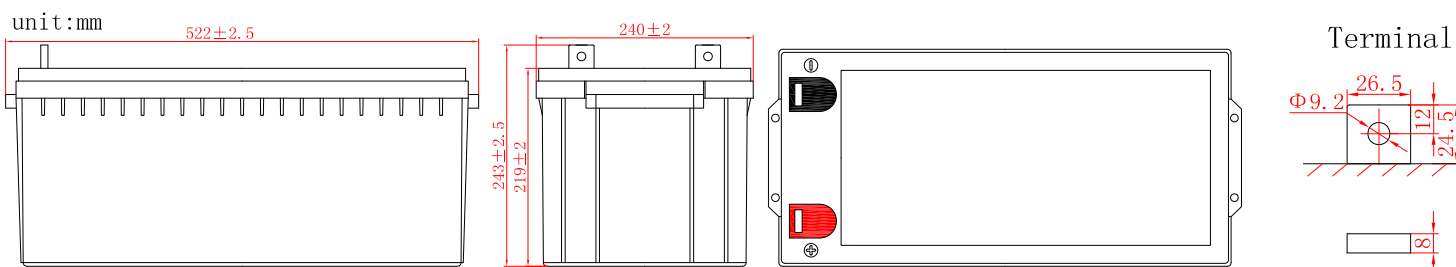


VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

This is also certified by ISO 9001 and ISO 14001.

► Dimensions :

Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm 243±2.5	219±2	522±2.5	240±2



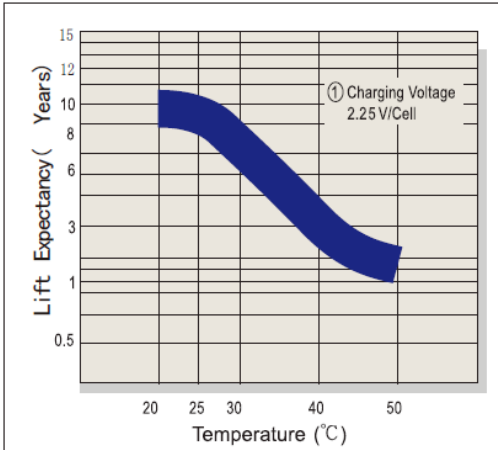
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	407	306	194.6	119.4	52.2	34.06	19.25	10.32
1.67V	394	298	190.9	117.9	51.8	33.82	19.17	10.29
1.7V	380	289	186.6	115.9	51.3	33.52	19.09	10.25
1.75V	360	275	180.8	112.9	50.4	32.95	18.92	10.17
1.8V	330	255	172.7	107.8	48.5	31.97	18.57	10.00
1.85V	284	223	161.8	99.9	44.6	29.77	18.01	9.68

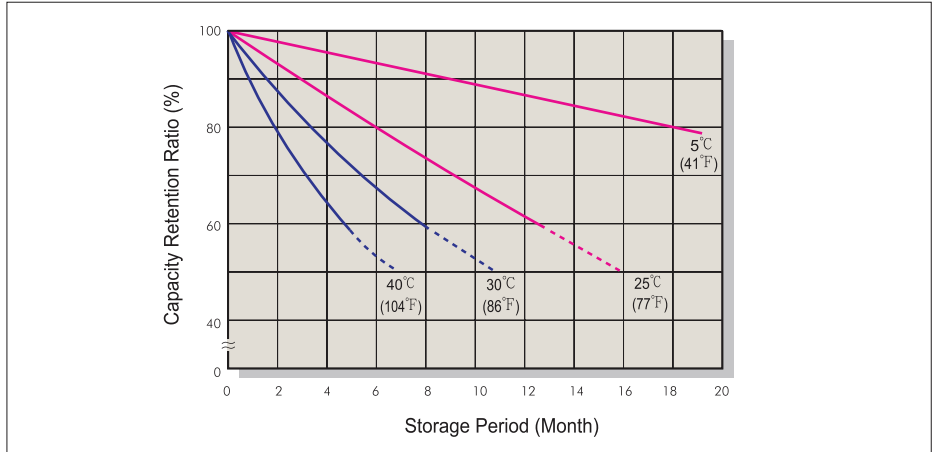
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	817	659	376.1	226.9	102.9	66.5	37.89	20.48
1.67V	775	624	369.5	224.1	102.0	66.3	37.69	20.44
1.7V	724	584	362.1	221.1	101.0	65.8	37.45	20.38
1.75V	660	534	351.8	216.8	99.2	64.8	37.05	20.22
1.8V	581	472	336.3	209.6	95.5	63.0	36.38	19.83
1.85V	482	397	314.9	198.5	88.8	59.3	35.31	19.16

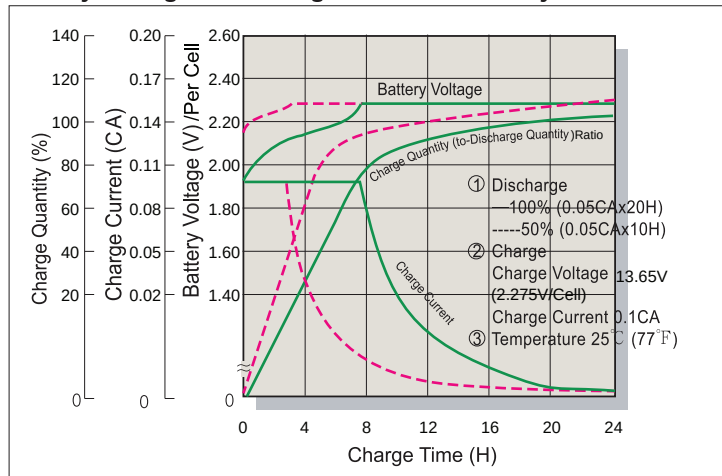
Trickle(or Float)Design Life



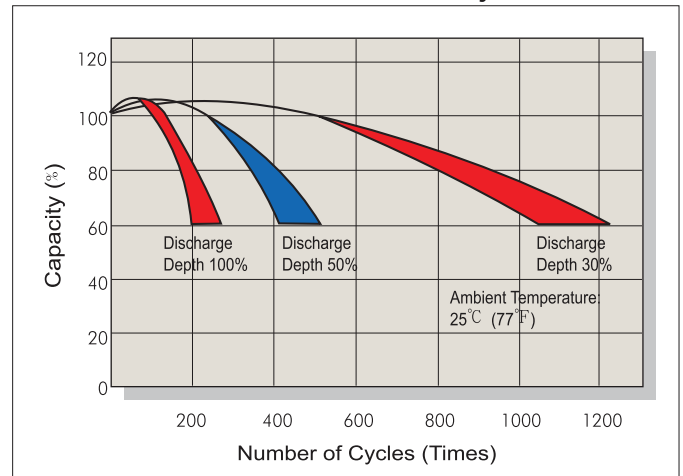
Capacity Retention Characteristic



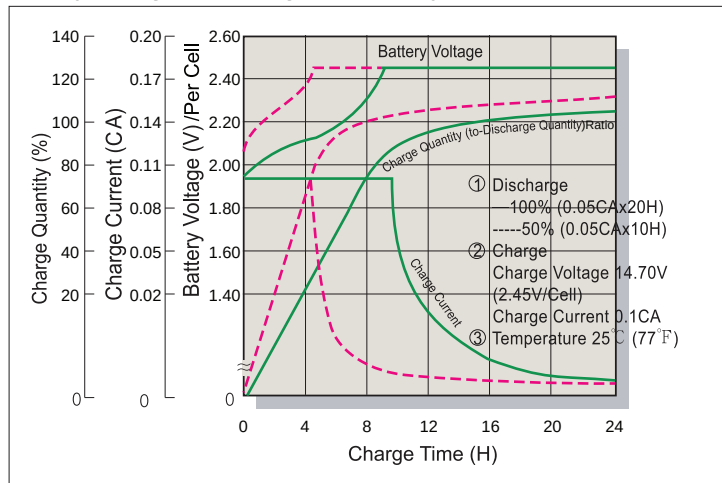
Battery Voltage and Charge Time for Standby Use



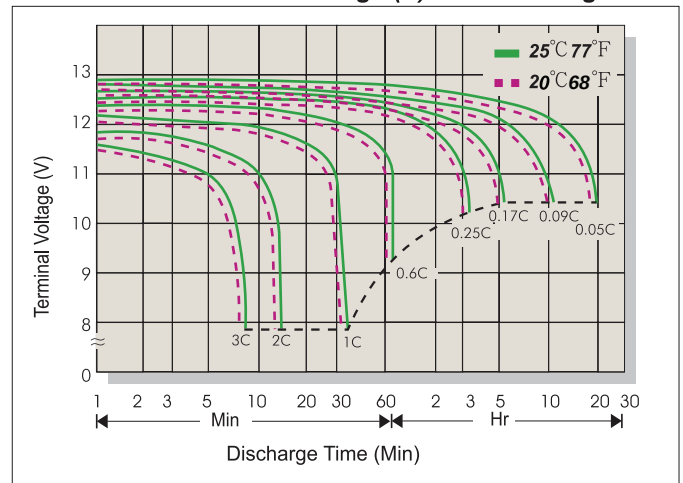
Cycle Service Life



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	0.2C
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

Charge Voltage(V/Cell)	Charge Voltage(V/Cell)
3 Months	91%
6 Months	82%
12 Months	64%