Powered by

JM12-200 ▶ 12V200Ah

JM12-200 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service . As with all batteries, all are rechargeable , highly efficient , leak proof and maintenance free.



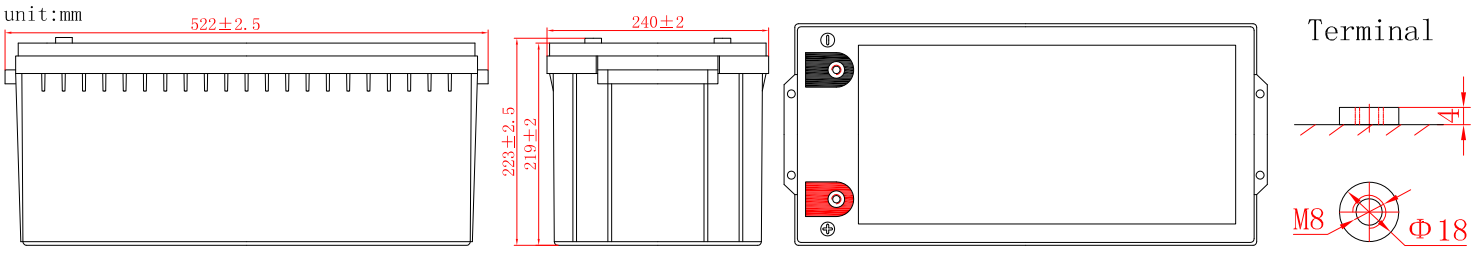
▶ Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah @ 10hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 58.5kg(127.6 lbs)
Maximum Discharge Current	1800A(5sec)
Internal Resistance	Approx. 3.0 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	50A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	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 M8 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

▶ Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
223±2.5	219±2	522±2.5	240±2



Constant Current Discharge Characteristics Unit:A (25℃,77℉)

F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	207	152	125.4	52.7	35.3	24.3	20.18	10.76
1.67V	203	150	123.6	52.3	35.1	24.3	20.14	10.73
1.7V	201	148	122.2	51.9	34.9	24.2	20.11	10.70
1.75V	194	144	118.3	50.9	34.3	24.0	20.00	10.60
1.8V	184	139	113.2	49.1	33.4	23.6	19.68	10.44
1.85V	173	132	105.0	45.1	31.0	22.5	18.91	10.09

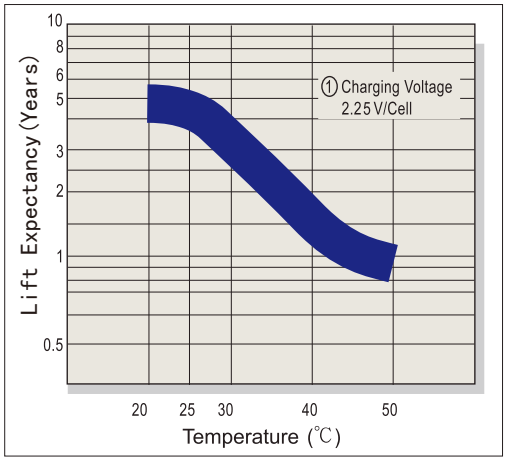
Constant Power Discharge Characteristics Unit:W (25℃,77℉)

F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	342	255	213.4	98.9	68.9	47.5	39.70	21.17
1.67V	333	248	210.7	97.9	68.7	47.3	39.62	21.07
1.7V	323	243	208.8	97.1	68.5	47.2	39.52	21.00
1.75V	305	231	203.7	95.3	67.6	46.8	39.19	20.80
1.8V	282	215	198.4	91.9	65.8	46.0	38.58	20.54
1.85V	252	194	186.8	85.3	61.8	44.4	37.41	19.96

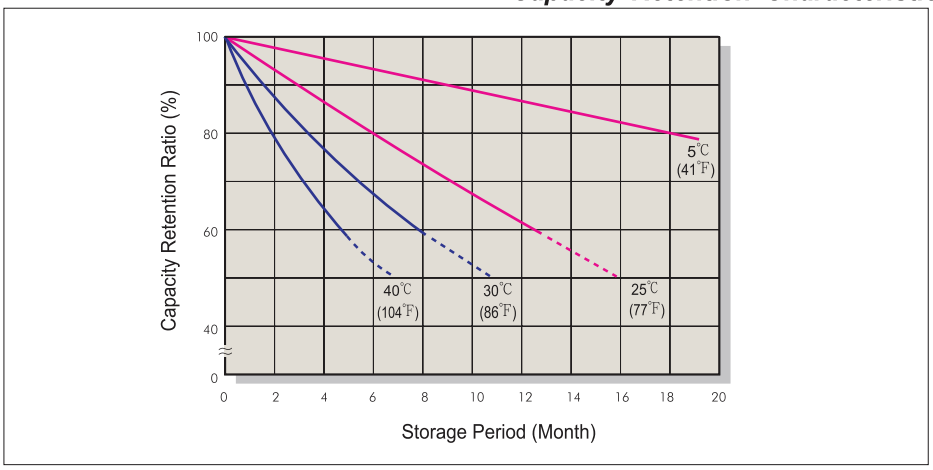
JM12-200

12V200Ah

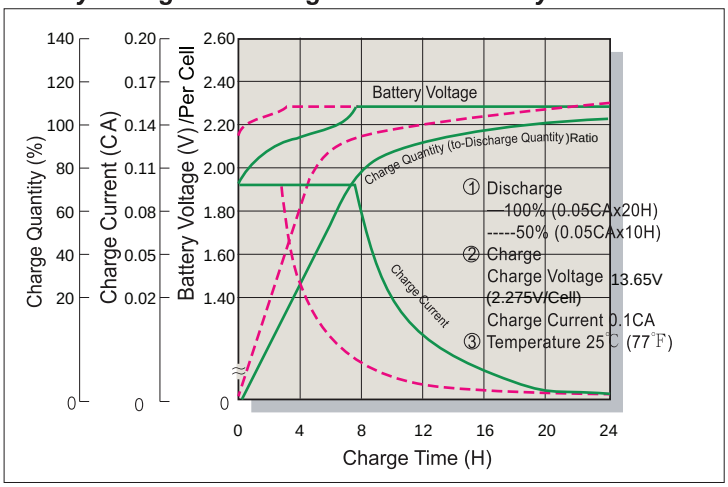
Trickle(or Float)Design Life



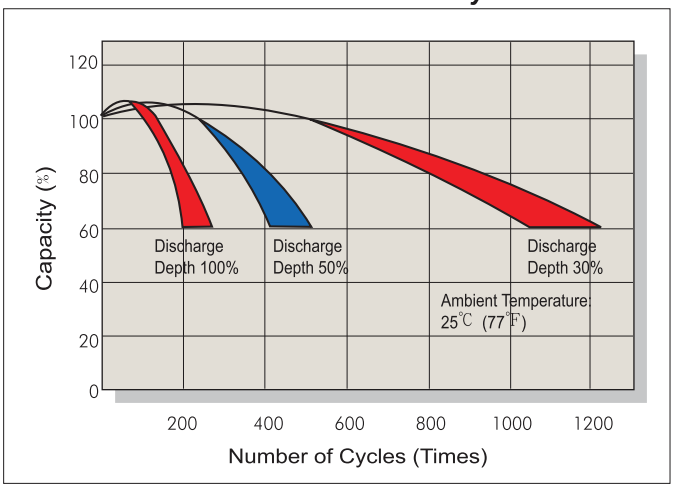
Capacity Retention Characteristic



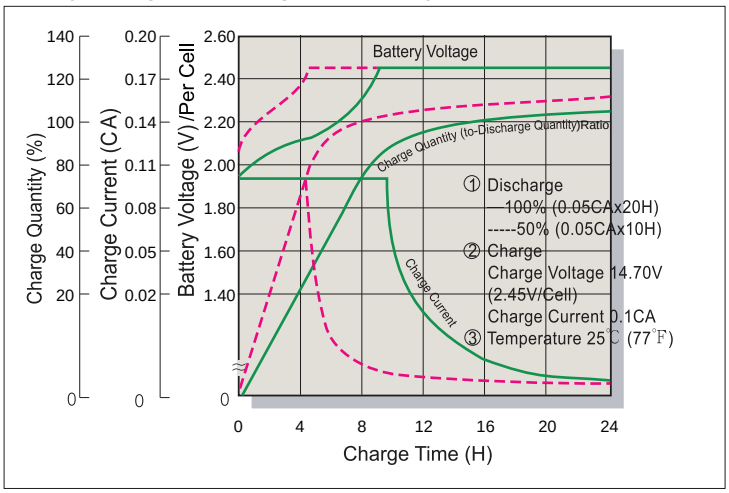
Battery Voltage and Charge Time for Standby Use



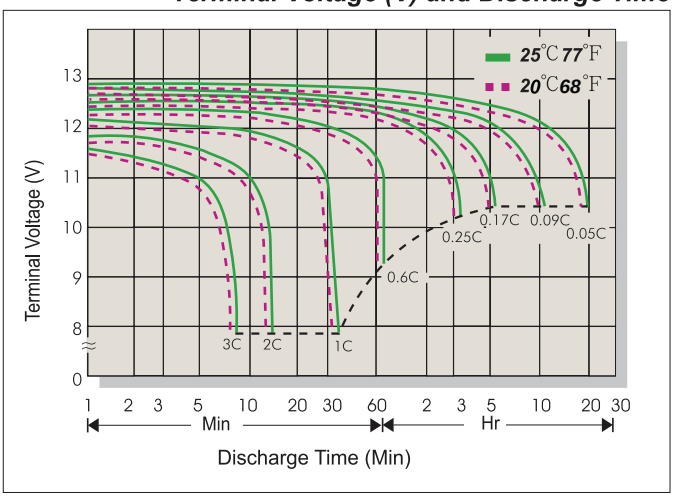
Cycle Service Life



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℃(77℉)	2.45	2.40~2.50	0.25C
Standby	25℃(77℉)	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 ℃	102%
25 ℃	100%
0 ℃	85%
-15 ℃	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%