

# MK12-800W 12V200Ah



## introduce

MK12-800W is a high power valve-regulated sealed lead-acid battery. The most suitable for high-rate discharge requirements of the UPS, EPS and other emergency backup power equipment and uninterruptible power supply equipment. As with all Baace batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



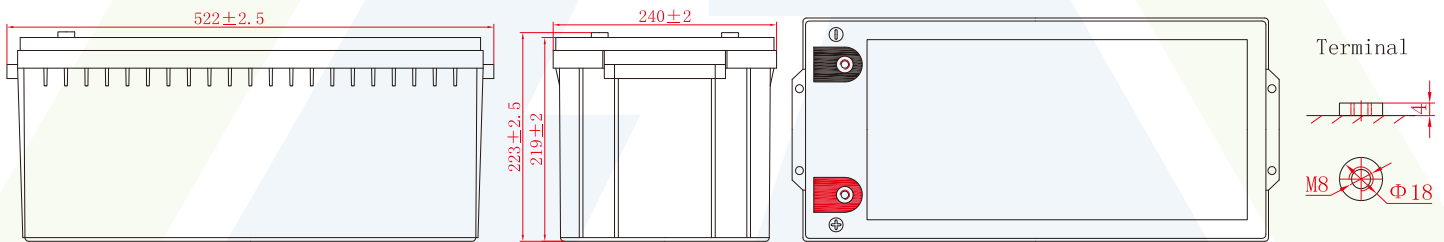
MK-manufactured **VRLA** (Absorbent **G**lass **M**at type) batteries are UL-recognized components under UL2000.

## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	800W@15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 69.5kg(153.2lbs)
Maximum Discharge Current	2000A (5sec)
Internal Resistance	Approx. 3.2mΩ
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	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 M8 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

Dimensions :	<b>Overall Height (H)</b>	<b>Container height (h)</b>	<b>Length (L)</b>	<b>Width (W)</b>
Unit: mm	223±2.5	219±2	522±2.5	240±2

Unit: mm



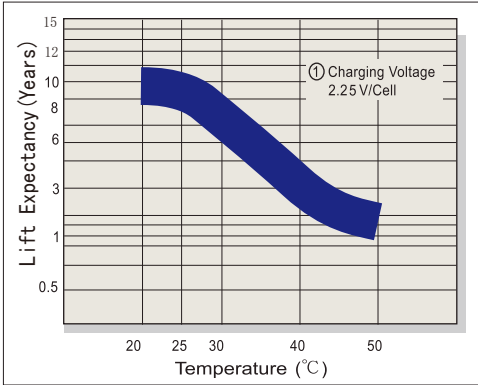
## Constant Current Discharge Characteristics Unit:A(25°C/77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	571	488	418	348	296	232	148	109	82.1
1.80V	610	526	456	373	311	244	153	113	86.7
1.75V	655	561	492	395	324	254	157	116	89.7
1.70V	698	593	525	415	335	262	160	119	90.6
1.67V	731	616	546	429	348	270	164	122	92.3
1.60V	792	657	582	452	371	282	171	128	93.8

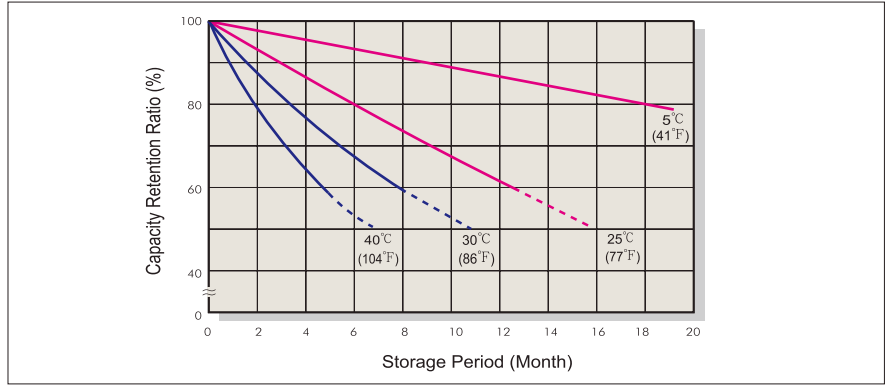
## Constant Power Discharge Characteristics Unit:: W/cell(25°C/77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	1088	954	829	608	586	467	297	220	173
1.80V	1160	1010	885	674	609	483	303	224	178
1.75V	1231	1060	938	736	632	497	309	228	181
1.70V	1295	1109	989	780	652	508	313	232	184
1.67V	1336	1138	1015	800	664	512	316	235	184
1.60V	1426	1198	1066	826	687	524	320	240	186

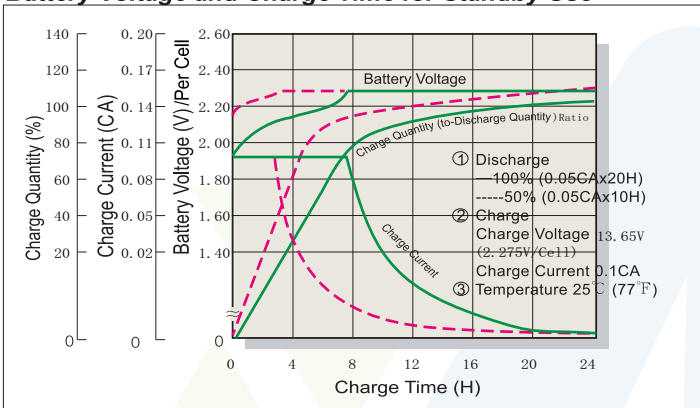
Trickle(or Float)Design Life



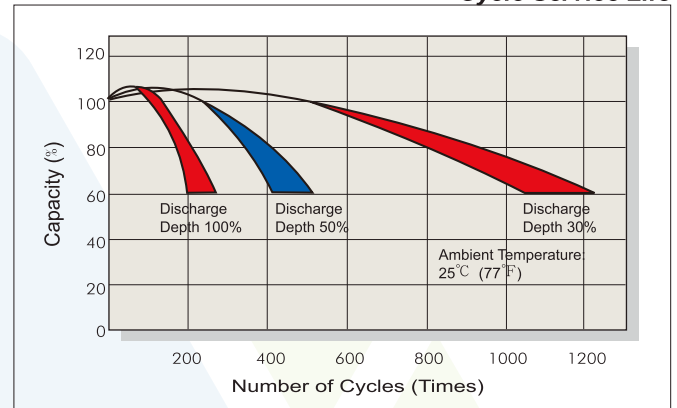
Capacity Retention Characteristic



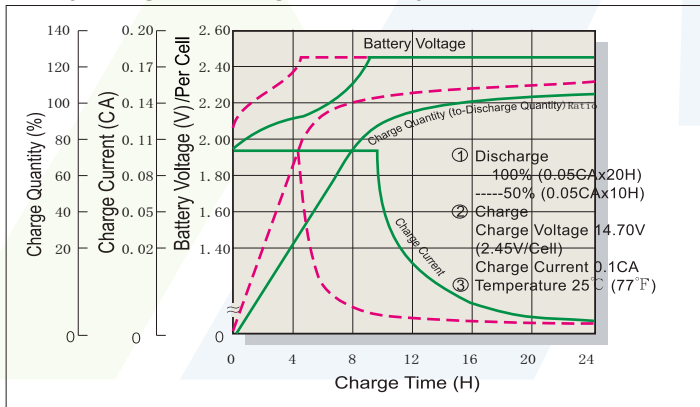
Battery Voltage and Charge Time for Standby Use



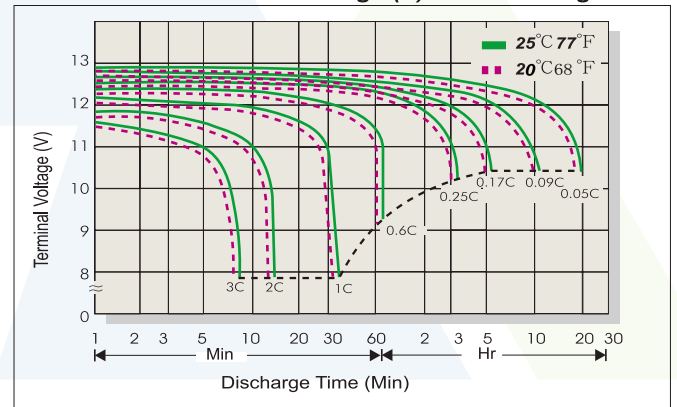
Cycle Service Life



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 (10HR)

Temperature	Dependency of Capacity (10HR)
40 °C	103%
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%