

# MK12-700W 12V200Ah



## introduce

MK12-700W 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.



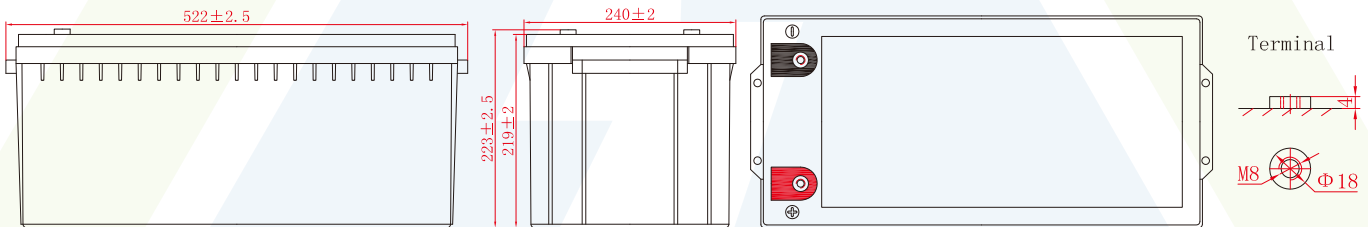
MK-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL2000.

## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	700W@15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 63.5 kg(140.0bs)
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	500	428	367	305	260	203	130	96.0	71.8
1.80V	535	462	400	327	273	214	134	99.5	75.9
1.75V	574	492	431	347	284	223	138	102	78.5
1.70V	612	520	460	364	294	230	140	104	79.3
1.67V	641	540	478	376	305	237	144	107	80.8
1.60V	695	576	510	397	325	247	150	112	82.1

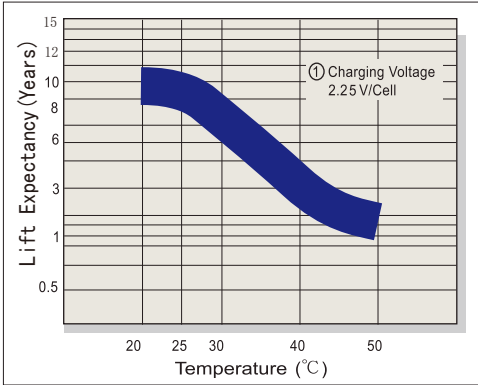
## Constant Power Discharge Characteristics Unit: W/cell(25°C/77°F)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	954	837	727	532	514	410	260	193	151
1.80V	1017	886	776	590	534	424	265	197	156
1.75V	1079	929	822	644	554	436	271	200	159
1.70V	1136	973	867	683	572	445	274	203	161
1.67V	1171	998	890	700	582	449	277	206	161
1.60V	1250	1050	935	722	602	459	281	210	163

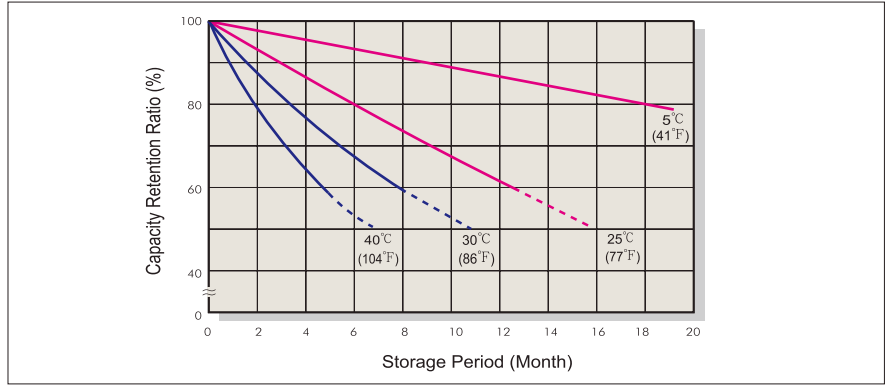
# MK Lead acid high power battery series

## MK12-700W 12V200Ah

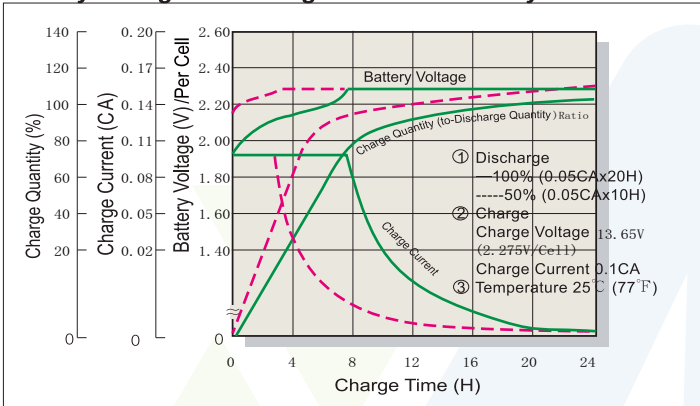
**Trickle(or Float)Design Life**



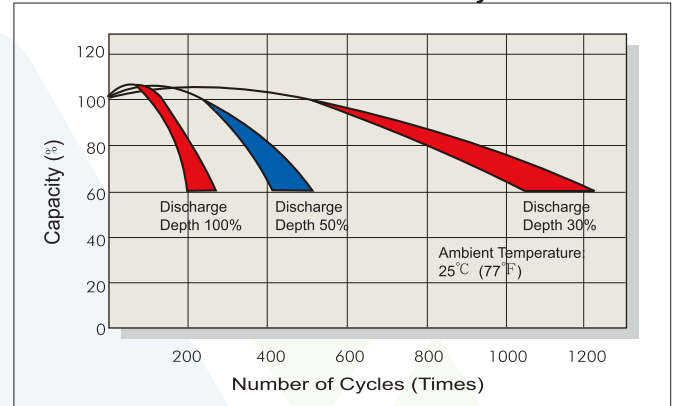
**Capacity Retention Characteristic**



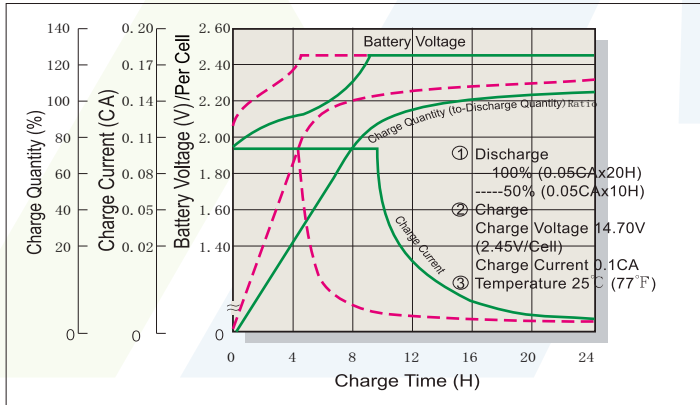
**Battery Voltage and Charge Time for Standby Use**



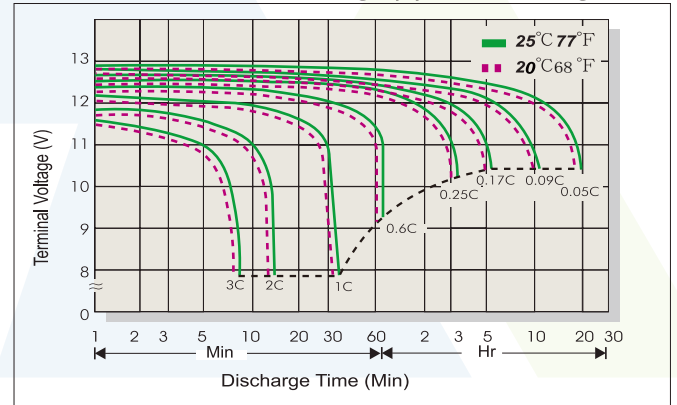
**Cycle Service Life**



**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°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%

