MK Lead acid high power battery series

MK ENERGY
— Advancement · Technology · Innovation —

MK12-560W 12V150Ah

introduce

MK12-560W 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.

MH 27774

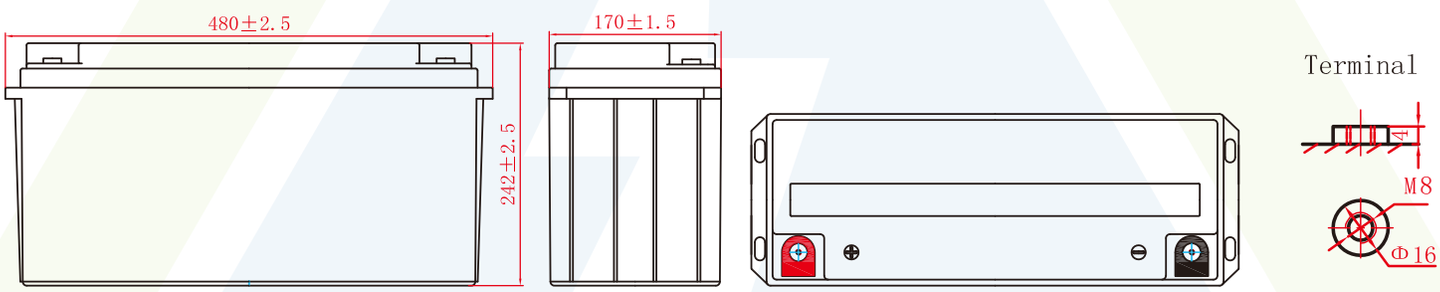
MK-manufactured VRLA (**A**bsorbent **G**lass **M**at type) batteries are UL-recognized components under UL2000.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	560W@15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 44.4 kg(97.88lbs)
Maximum Discharge Current	1500A (5sec)
Internal Resistance	Approx. 4.0mΩ
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	45A
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 than6months at 25°C (77°F). Please charge batteries before using. For higher temperatures thetime 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)	Containerheight (h)	Length (L)	Width (W)
	242±2.5	242±2.5	480±2.5	170±1.5

Unit: mm



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

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	359	326	286	248	208	157	95.8	70.2	57.4
1.80V	390	351	312	265	218	166	99.1	72.8	60.7
1.75V	420	375	336	281	227	173	102	74.8	62.8
1.70V	447	396	359	295	235	178	104	76.4	63.4
1.67V	469	412	373	305	244	183	106	78.5	64.6
1.60V	508	439	398	322	260	191	111	81.9	65.7

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

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	696	636	567	426	411	318	192	141	121
1.80V	744	674	606	472	427	328	196	144	125
1.75V	790	708	642	515	443	338	200	146	127
1.70V	832	741	677	546	457	345	203	149	128
1.67V	858	761	694	560	465	348	205	151	129
1.60V	915	800	729	578	481	356	207	154	130

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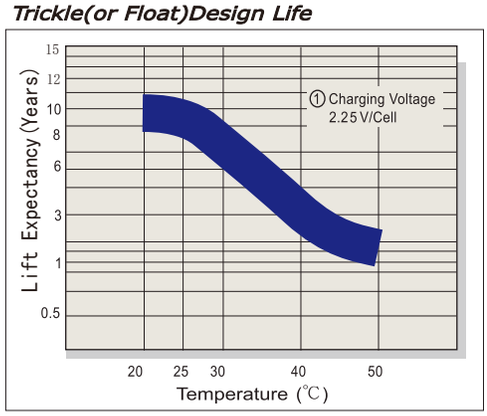
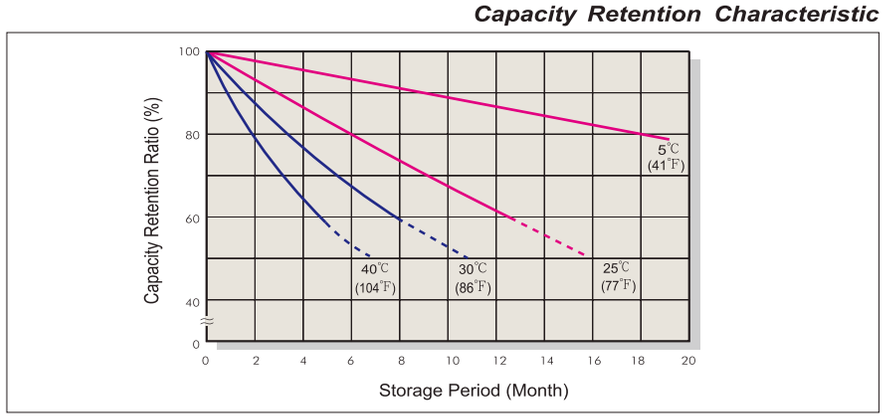
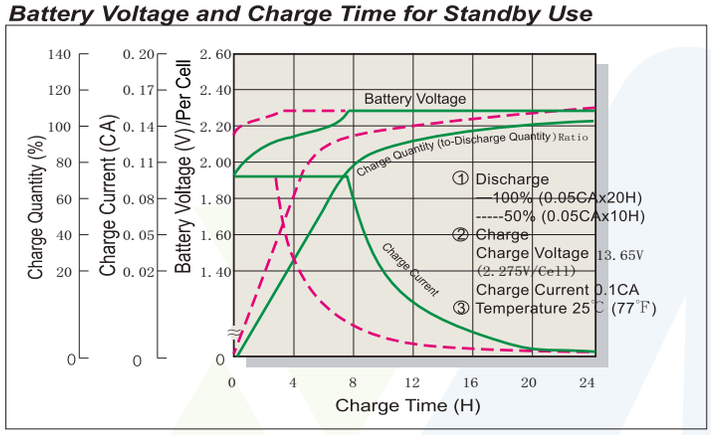
Trickle(or Float)Design Life



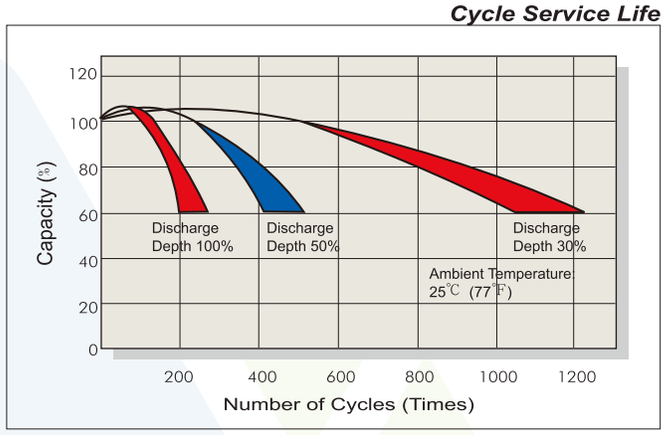
Capacity Retention Characteristic



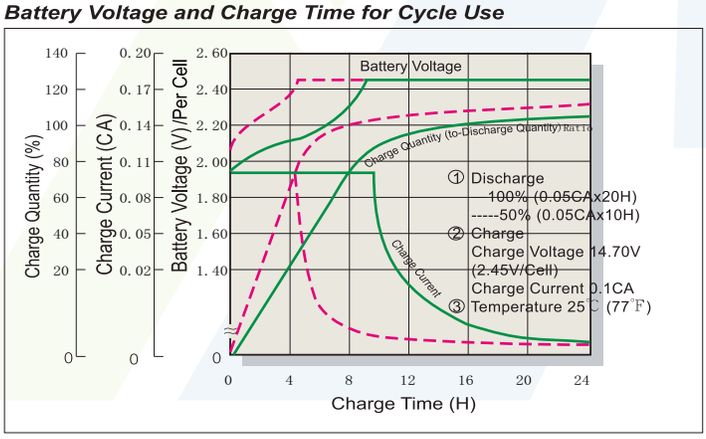
Battery Voltage and Charge Time for Standby Use



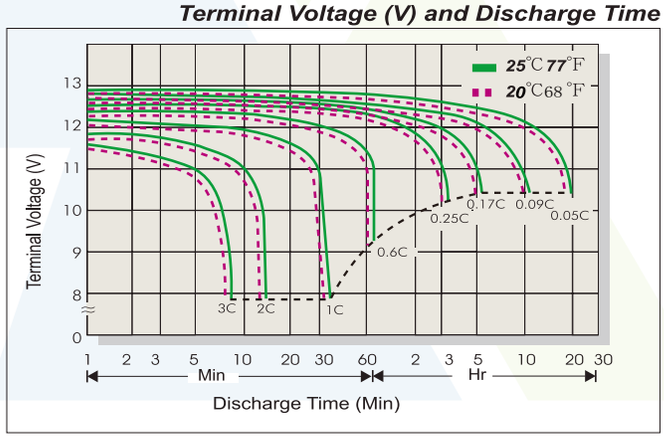
Cycle Service Life



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	0.30C
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 (10HR)

Temperature	Dependency of Capacity (10HR)
40℃	103%
25℃	100%
0℃	85%
-15℃	65%

Self-discharge Characteristics

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

WWW.MKENERGYCN.COM sales@mkenergycn.com

SALES OFFICE: MK ENERGY(SHENZHEN) CO.,LTD.
Sales Center:
1806,Building F, Nanshan Wisdom Valley Industrial Park,
Shahe West Road,Nanshan District, Shenzhen, China.

Huizhou Base:
9F, Bldg 3, Runhao Park, Sihuan South Road, Zhongkai High-tech Zone, Huizhou, China.