

MK12-110W 12V26Ah



introduce

MK12-110W 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.



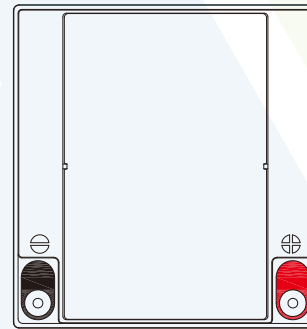
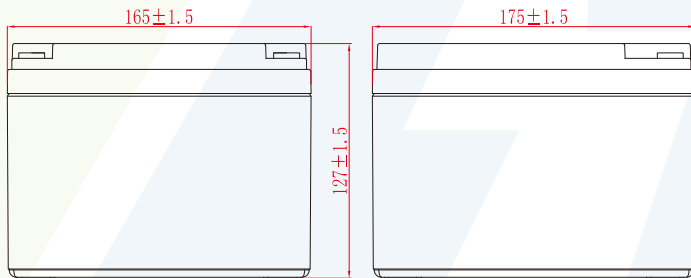
MK-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL2000.

Specification

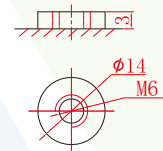
Cells Per Unit	6
Voltage Per Unit	12
Capacity	110W@15min-rate to 1.67V per cell@25°C (77°F)
Weight	Approx. 8.6 kg (18.96 lbs)
Maximum Discharge Current	375A(5sec)
Internal Resistance	Approx. 11 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (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	7.8A
Equalization and Cycle Service	14.4 to 14.8 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 temperature the time interval will be shorter.
Terminal	Thread lead alloy recessed terminal to accept M6 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

Dimensions :	Overall Height (H)	Container height (h)	Length(L)	Width (W)
Unit: mm	127±1.5	127±1.5	165±1.5	175±1.5

Unit: mm



Terminal



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

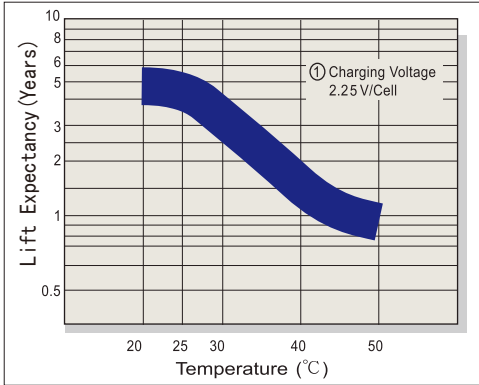
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	73.2	63.6	54.5	45.4	38.3	29.0	17.9	13.0	11.3
1.80V	79.5	68.6	59.5	48.7	40.3	30.6	18.5	13.5	11.9
1.75V	85.4	73.2	64.2	51.6	42.0	31.9	19.0	13.8	12.3
1.70V	91.1	77.4	68.5	54.3	43.4	32.9	19.4	14.1	12.5
1.67V	95.4	80.4	71.2	56.1	45.1	33.9	19.9	14.5	12.7
1.60V	103	85.8	75.9	59.1	48.0	35.4	20.7	15.1	12.9

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

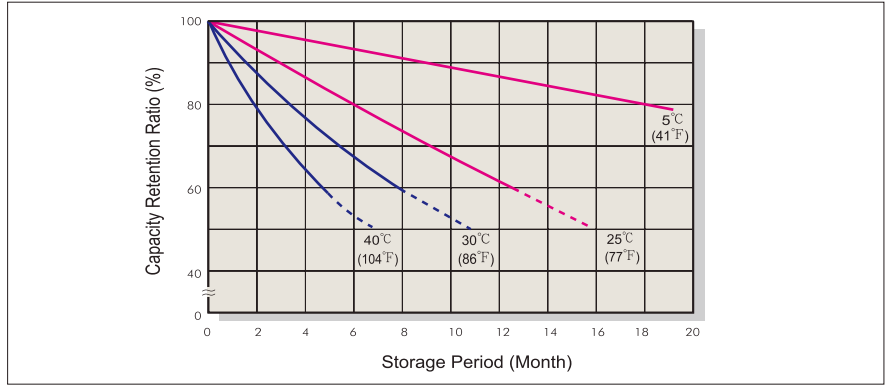
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	144	126	109	83.6	75.8	58.6	35.8	26.0	23.7
1.80V	153	133	117	92.7	80.0	60.5	36.7	26.9	24.4
1.75V	163	140	124	101	83.0	62.0	37.4	27.5	24.9
1.70V	171	147	131	107	85.5	63.5	37.9	27.9	25.2
1.67V	177	150	134	110	86.5	64.2	38.2	28.1	25.4
1.60V	188	158	141	114	89.0	65.6	38.7	28.5	25.6

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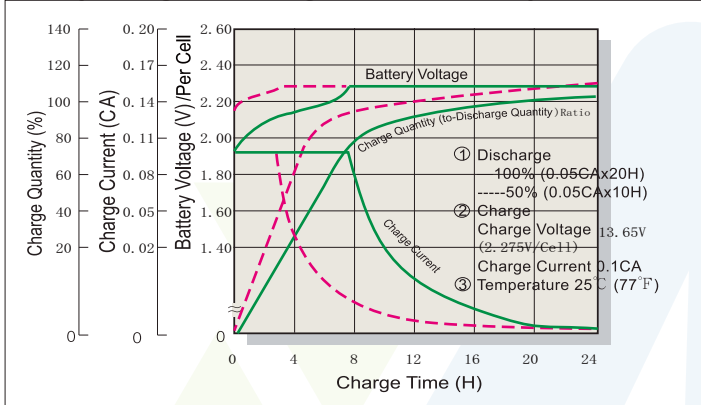
Trickle(or Float)Design Life



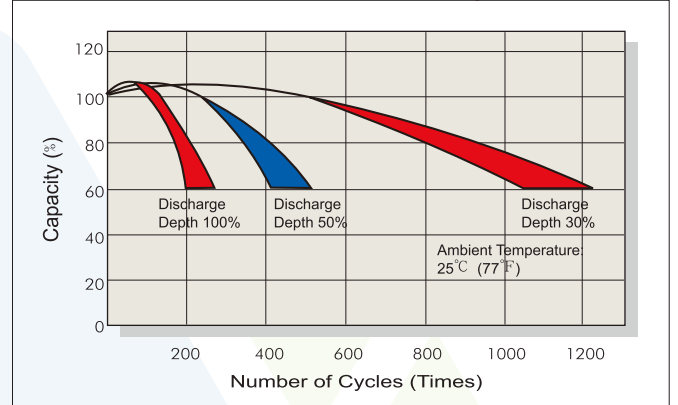
Capacity Retention Characteristic



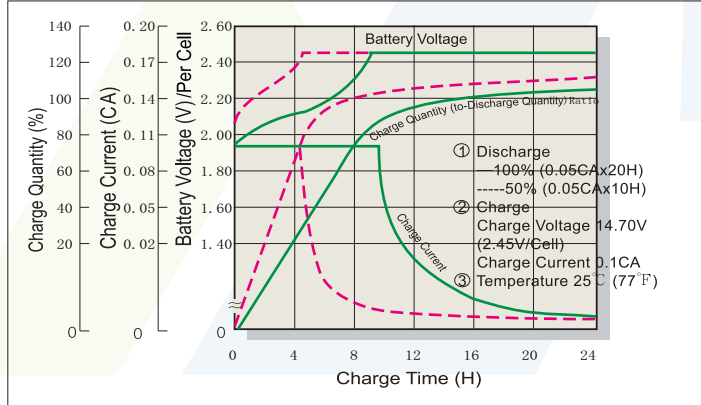
Battery Voltage and Charge Time for Standby Use



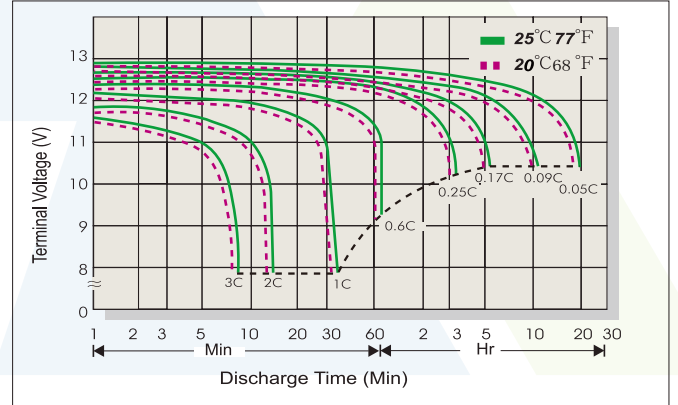
Cycle Service Life



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°C (77°F)	2.45	2.40~2.50	0.30C
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

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

