

MK12-255W 12V65Ah



introduce

MK12-255W 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.

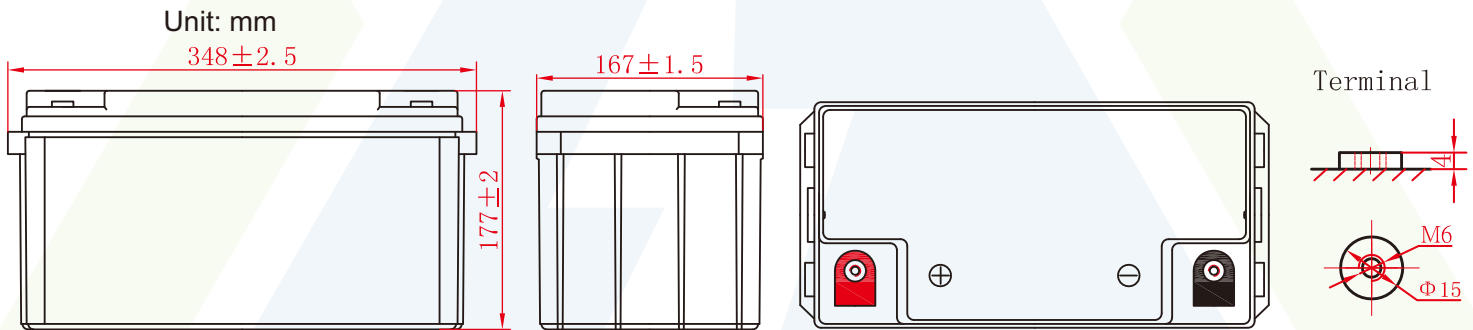


MK-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL2000.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	265W@15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 21 kg (46.3 lbs)
Maximum Discharge Current	700A(5sec)
Internal Resistance	Approx. 5.0mΩ
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	19.5A
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	177±2	177±2	348±2.5	167±1.5



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

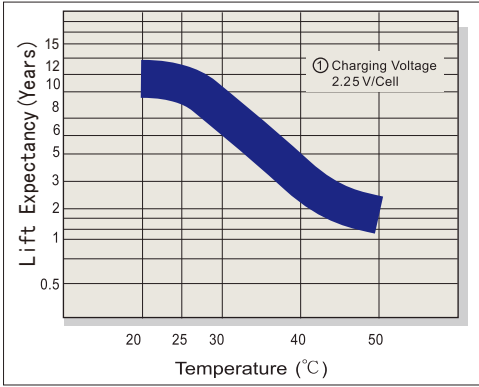
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	163	145	126	108	90.3	68.5	41.8	30.6	26.2
1.80V	177	157	138	115	94.9	72.3	43.2	31.8	27.6
1.75V	191	167	149	122	99.0	75.3	44.4	32.6	28.6
1.70V	203	177	159	129	102	77.7	45.2	33.3	28.9
1.67V	213	184	165	133	106	79.9	46.4	34.3	29.4
1.60V	231	196	176	140	113	83.4	48.4	35.7	29.9

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

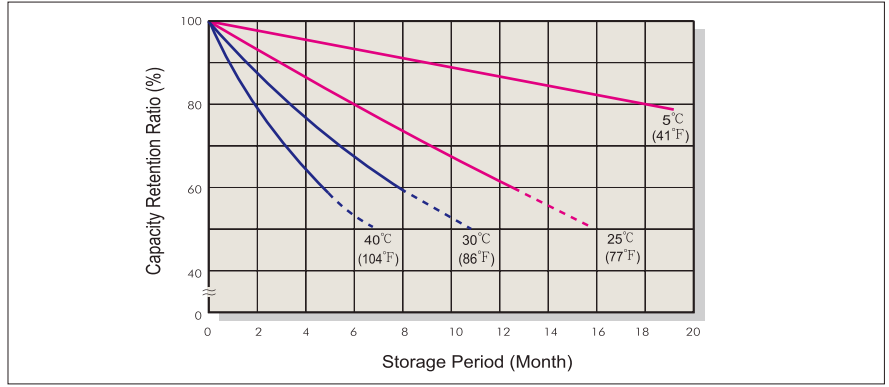
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	316	284	251	194	179	138	83.8	61.5	55.0
1.80V	338	301	268	215	186	143	86.0	62.7	56.7
1.75V	359	316	284	235	193	147	87.5	64.0	57.7
1.70V	378	331	300	249	199	150	88.8	65.2	58.5
1.67V	390	340	308	255	203	152	89.5	65.8	58.8
1.60V	416	357	323	263	210	155	90.5	67.1	59.4

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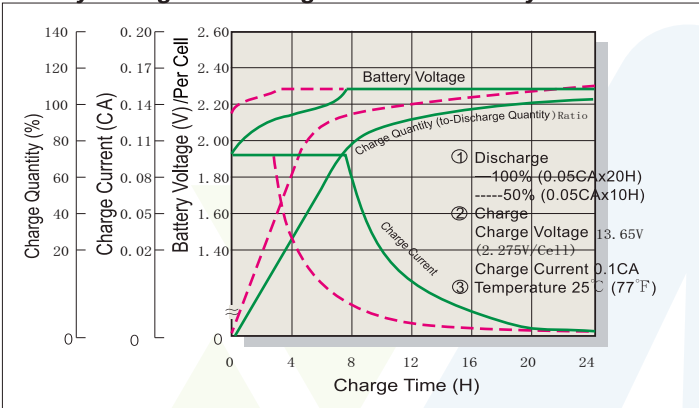
Trickle(or Float)Design Life



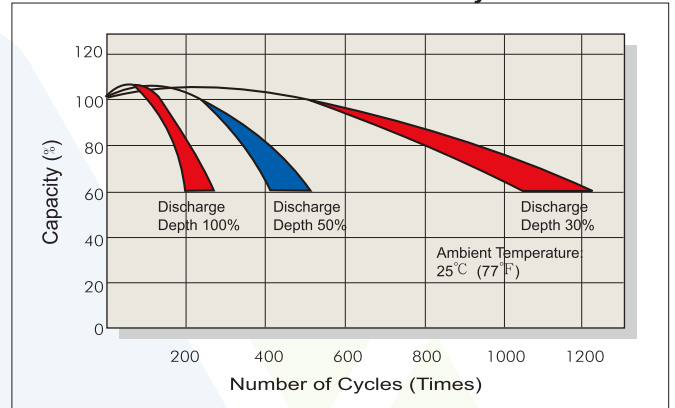
Capacity Retention Characteristic



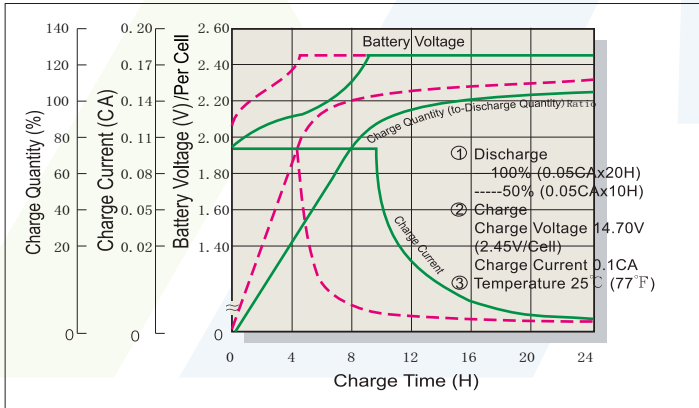
Battery Voltage and Charge Time for Standby Use



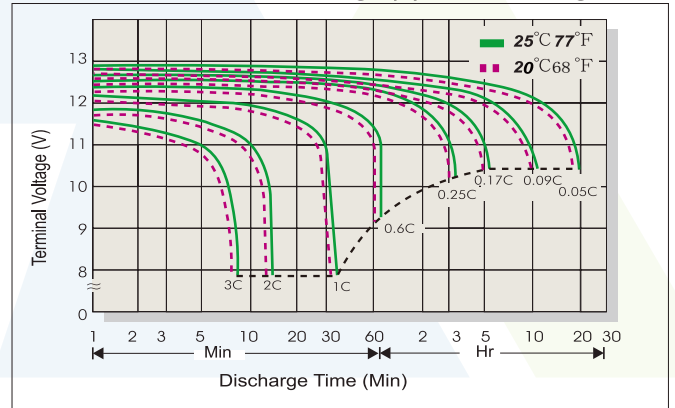
Cycle Service Life



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 (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%

