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# 6FM65Ah

12V65Ah

6FM65Ah is a general purpose battery up to 10 years in standby service or more than 260 cycles at 100% discharge in cycle service. As with all baace batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



## ► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah @ 10hr-rateto 1.80V per cell @25°C (77°F)
Weight	Approx.21.0 kg(46.3 lbs)
Maximum Discharge Current	650A(5sec)
Internal Resistance	Approx.6 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	18A
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 temperatures 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.



IT1548HL06061801

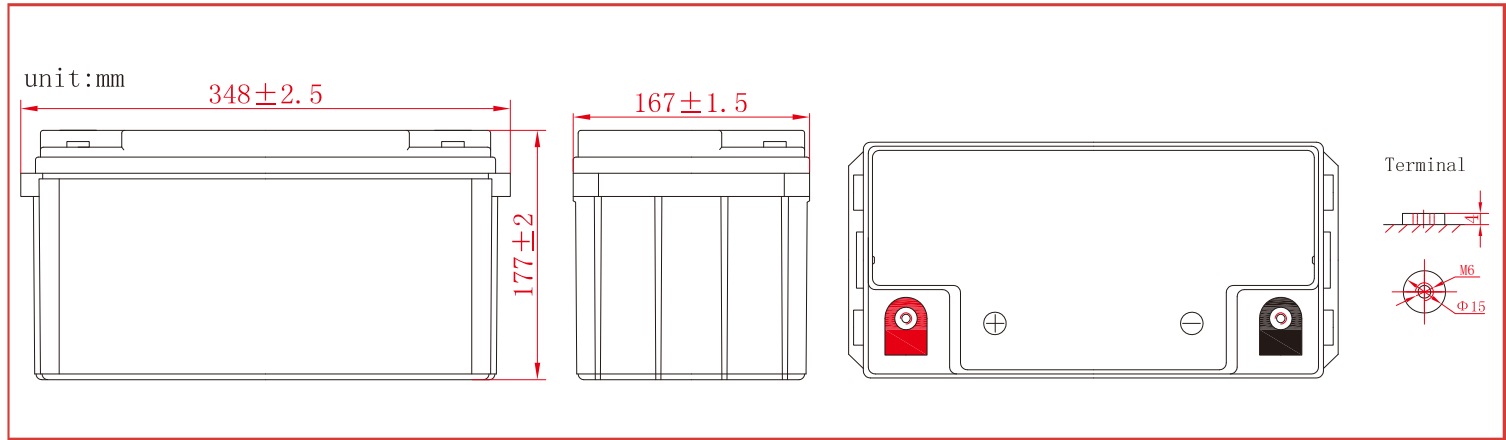


Baykee-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

Baykee is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Unit: mm	Overall Height (H)	Containerheight (h)	Length(L)	Width (W)
	177±2	177±2	348±2.5	167±1.5



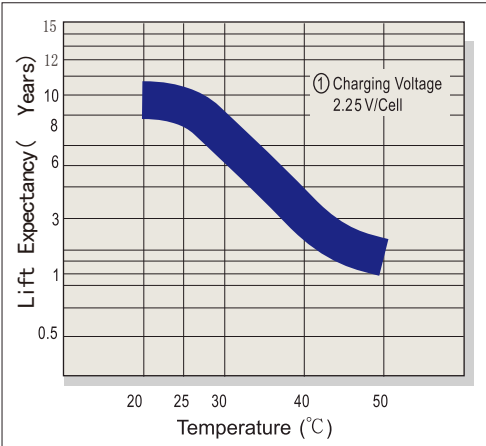
## Constant Current Discharge Characteristics Unit : A(25°C/77° F)

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	175	140	112	70.0	42.0	18.5	12.3	6.72	3.60
1.67V	171	137	110	68.7	41.5	18.3	12.1	6.70	3.59
1.70V	167	134	107	67.4	40.8	18.0	11.9	6.67	3.56
1.75V	160	128	102	65.1	39.6	17.6	11.7	6.62	3.53
1.80V	149	119	95.2	62.2	37.9	16.8	11.2	6.50	3.48
1.85V	130	104	83.4	58.3	35.1	15.4	10.4	6.28	3.37

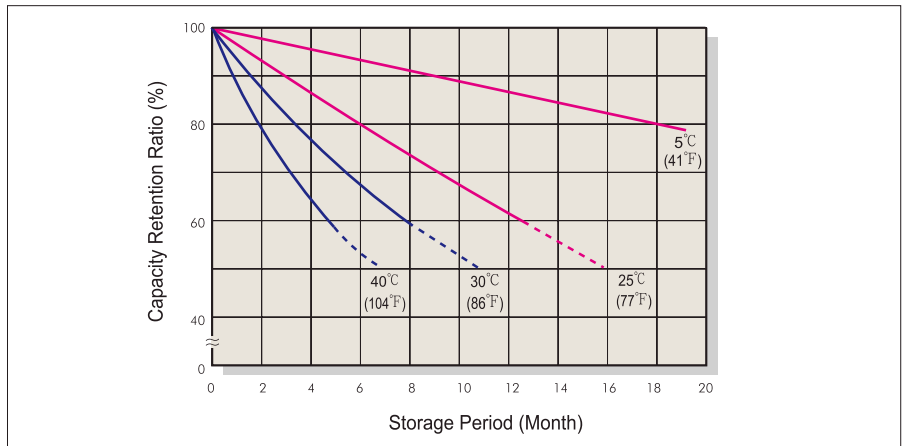
## Constant Power Discharge Characteristics Unit : : W/cell (25°C/77° F)

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	338	270	216	134	79.8	36.4	23.9	13.2	7.10
1.67V	320	256	205	132	78.9	35.9	23.8	13.2	7.08
1.70V	303	242	194	129	78.0	35.4	23.5	13.1	7.05
1.75V	276	221	177	125	76.4	34.5	23.0	13.0	6.97
1.80V	244	195	156	120	74.0	33.0	22.1	12.8	6.87
1.85V	204	163	130	112	69.8	30.6	20.7	12.4	6.68

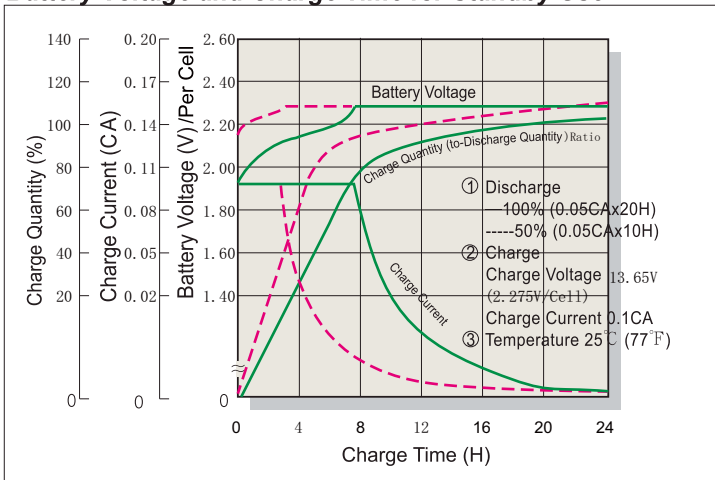
### Trickle(or Float)Design Life



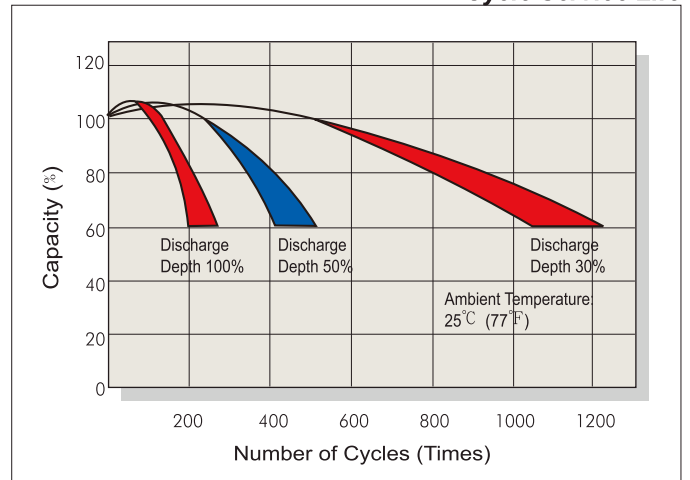
### Capacity Retention Characteristic



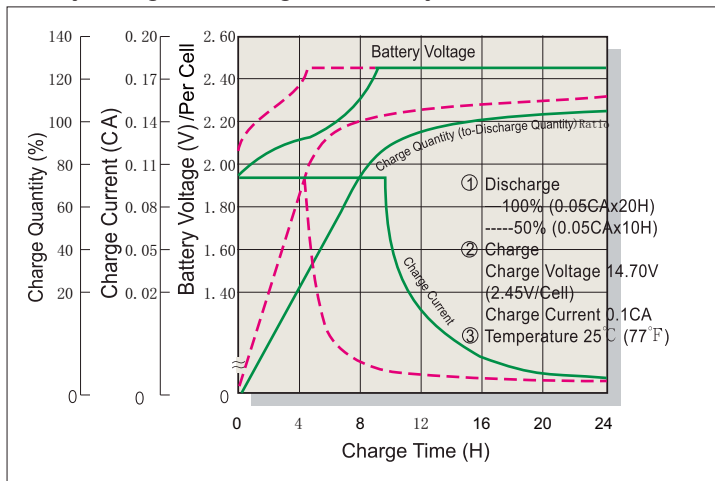
### Battery Voltage and Charge Time for Standby Use



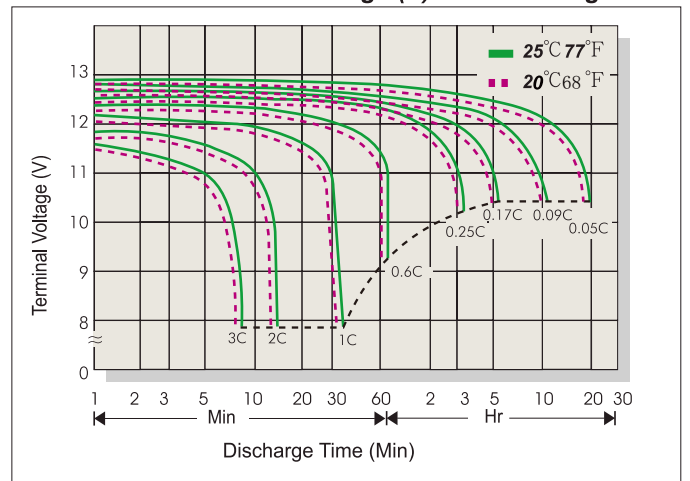
### Cycle Service Life



### 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	2.40~2.47	0.3C
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%