



6FM150

12V150Ah

6FM150 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	150Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
Weight	Approx. 44 kg(96.8 lbs)±3%
Maximum Discharge Current	1250A (5sec)
Internal Resistance	Approx. 3.5 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	37.5 A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	Baykee 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.



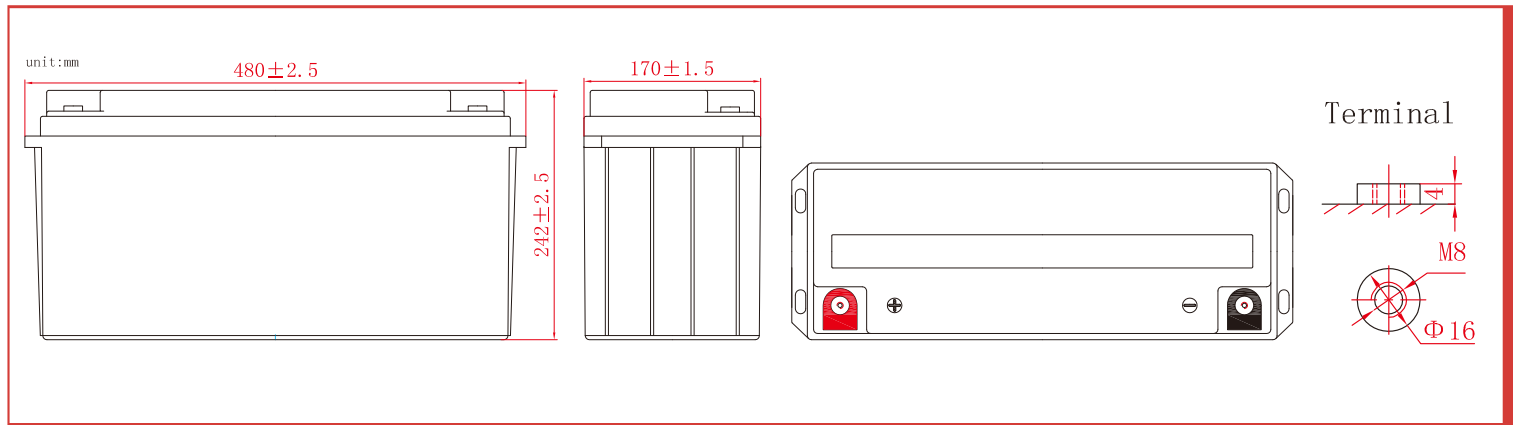
IT1548HL06061801



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

Baykee is also certified by ISO 9001 and ISO 14001.

► Dimensions : Unit: mm	Overall Height (H)	Container height (h)	Length (L)	Width (W)
	242±2.5	242±2.5	480±2.5	170±1.5



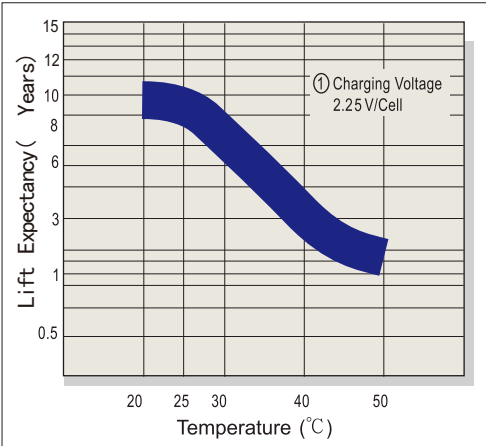
Constant Current Discharge Characteristics Unit : A(25°C/77° F)

F.V/Time	5MIN	10MIN	15MIN	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	508	398	322	160	118	97	40.6	27.2	18.7	15.53	8.28
1.67V	469	373	305	157	116	95	40.3	27.1	18.7	15.51	8.26
1.70V	447	359	295	155	114	94	40	26.9	18.6	15.49	8.24
1.75V	420	336	281	150	111	91	39.3	26.5	18.5	15.4	8.16
1.80V	390	312	265	143	107	87	37.8	25.7	18.1	15.15	8.04
1.85V	359	286	248	134	102	81	34.8	23.9	17.3	14.56	7.77

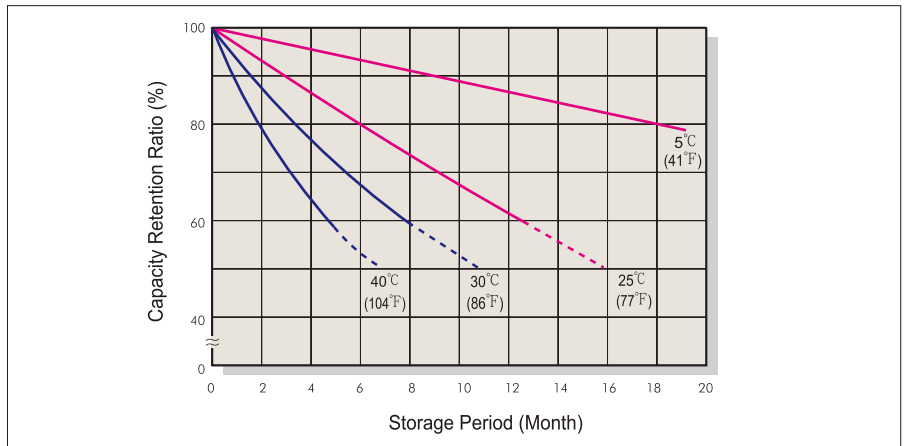
Constant Power Discharge Characteristics Unit: W/cell(25°C/77° F)

F.V/Time	5MIN	10MIN	15MIN	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	915	729	578	265	197	164	76.2	53.1	36.6	30.57	16.3
1.67V	858	694	560	257	192	162	75.5	53	36.4	30.51	16.22
1.70V	832	677	546	250	188	161	74.9	52.8	36.3	30.43	16.17
1.75V	790	642	515	236	179	157	73.5	52.1	36	30.18	16.02
1.80V	744	606	472	218	167	153	70.9	50.7	35.4	29.71	15.82
1.85V	696	567	426	195	150	144	65.8	47.6	34.2	28.8	15.37

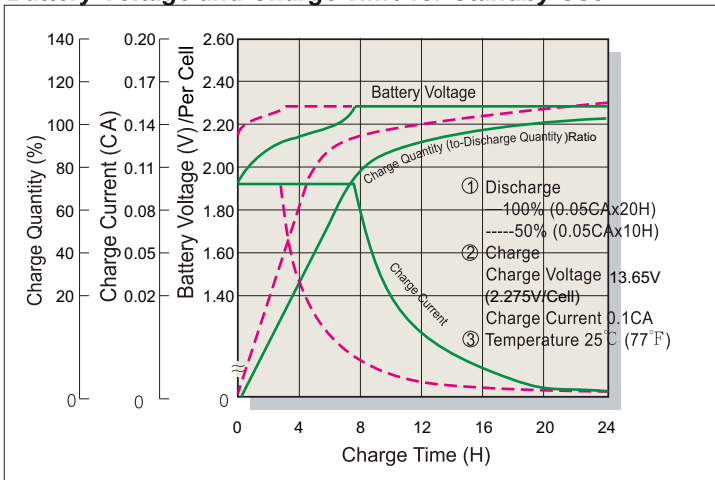
Trickle(or Float)Design Life



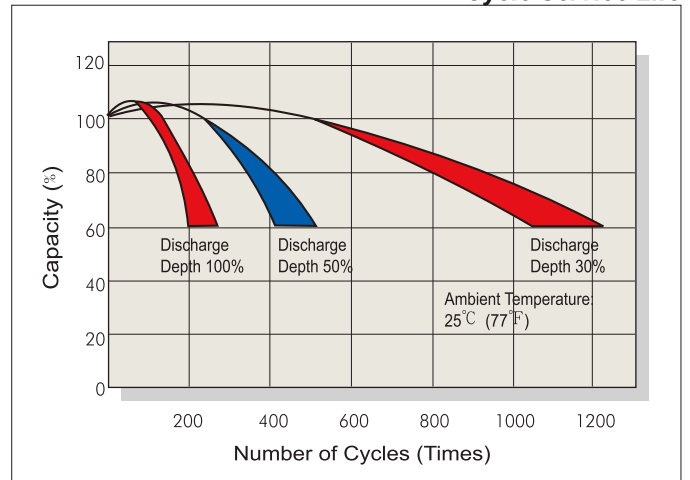
Capacity Retention Characteristic



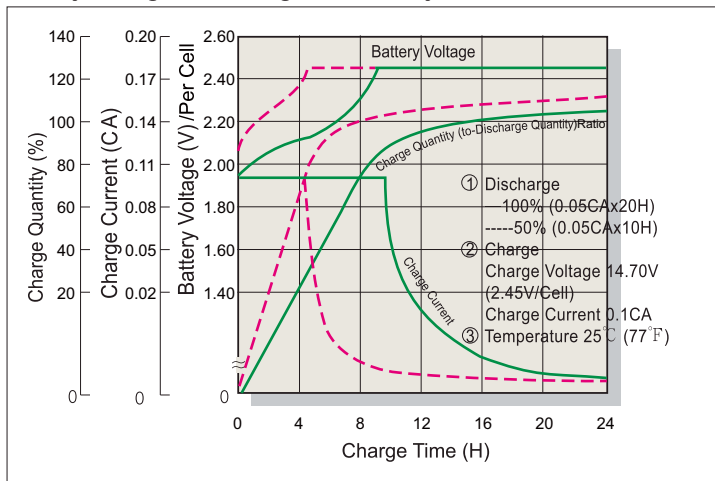
Battery Voltage and Charge Time for Standby Use



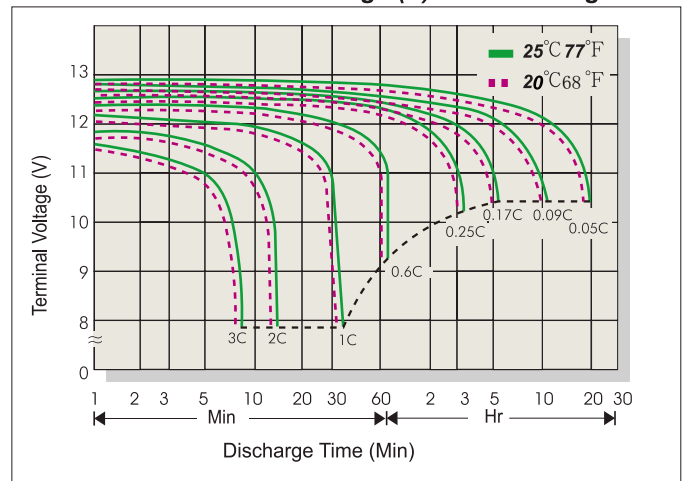
Cycle Service Life



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	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%