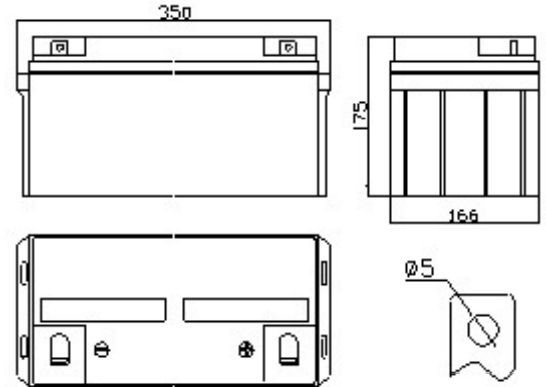


Model: 6-GFM(G)-65Ah 12V65Ah(Gel Battery)

The Sinbright Gel Series batteries use a silica gel to immobilize the electrolyte inside the battery. The silica gel technology delivers maximum cycle life and prolongs life in elevated ambient temperatures. Mainly applications: Communication equipment, Marine equipment, Emergency lighting systems, Control equipment, Electric power systems, Fire and security systems, Solar powered systems, Uninterruptible power supplies, etc.

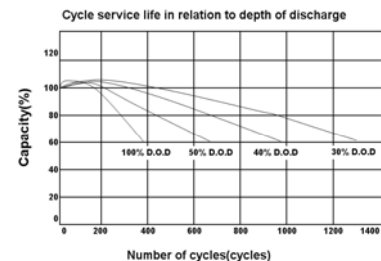
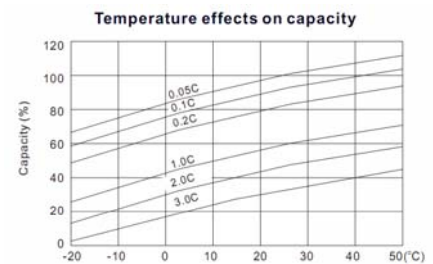
Specification

Nominal Voltage		12V
Capacity(10HR,25°C)		65Ah
Designed Life		10Years
Dimension	Length	350mm
	Width	175mm
	Height	166mm
	Total Height	175mm
Reference Weight		22.5kg



Charateristics

Capacity 25°C (77°F) To 1.70V/Cell	20 hr rate	67Ah
	10 hr rate	65Ah
	5 hr rate	55.2Ah
	1 hr rate	39Ah
Inner Resistance(fully charged 25°C)		6mΩ
Self-discharge (at 25°C.):		3% of the capacity per month
Discharge Temperature		-20~60°C
Charge Temperature		-10~60°C
Storage Temperature		-20~60°C
Cyclic use (at 25°C)		14.4~14.9V
Initial current (at 25°C)		19.5A
Temperature Compensation		-30mV/°C
Float Use (at 25°C)		13.6-13.8V
Temperature Compensation (at 25°C)		-20mV/°C



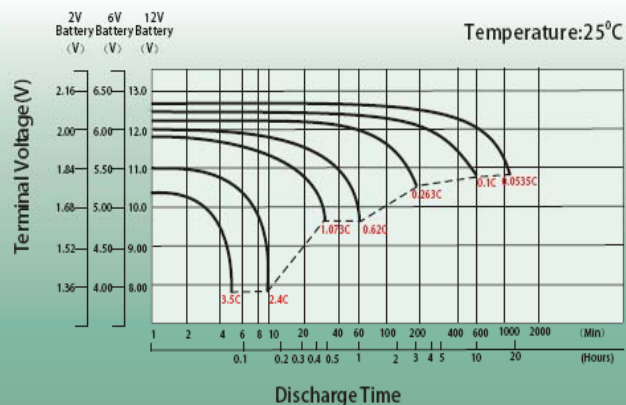
Constant-current discharge parameter Unit: A (25°C)

End Point Vol./Cell	5MIN	10MIN	15MIN	30MIN	1H	3H	5H	10H	20H
1.60V	212.9	156.8	123.8	69.8	39	17.5	12	6.53	3.64
1.65V	201	148	114.8	67.3	37.3	16.9	11.6	6.4	3.51
1.70V	189.1	140.9	112.9	65.6	35.8	16.7	11.4	6.29	3.38
1.75V	176.2	132	106.9	65.5	34.5	16.5	11.05	6.18	3.25
1.80V	163.4	127.2	99	61.2	33.3	16.1	11	6.1	3.13

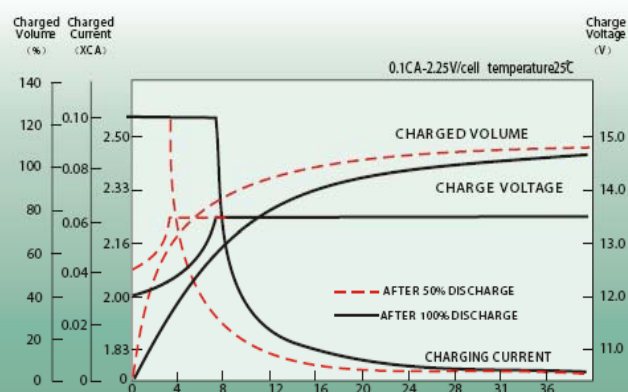
Constant-current discharge parameter Unit: W (25°C)

End Point Vol./Cell	5MIN	10MIN	15MIN	30MIN	45MIN	1H	2H	3H	5H
1.60V	377	279	215	131	97	80	45.6	34.2	22.6
1.65V	355	264	204	126	95	78.2	44.6	33.5	22.4
1.70V	334	249	195	117	93.6	76.4	44.2	33.4	22.2
1.75V	312	235	191	115	91.5	74.6	42.8	32.1	21.8
1.80V	291	221	181	113	90.3	74.3	42.1	31.4	21.5

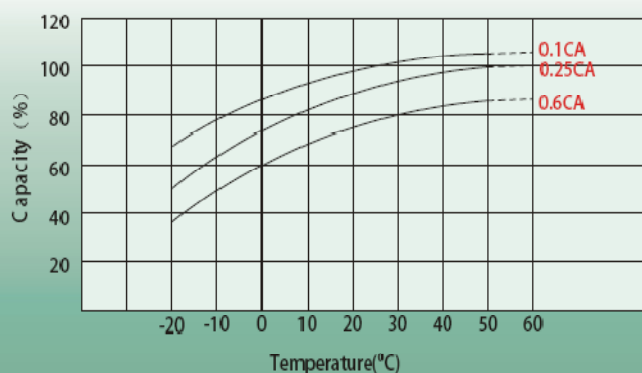
Discharge Characteristics



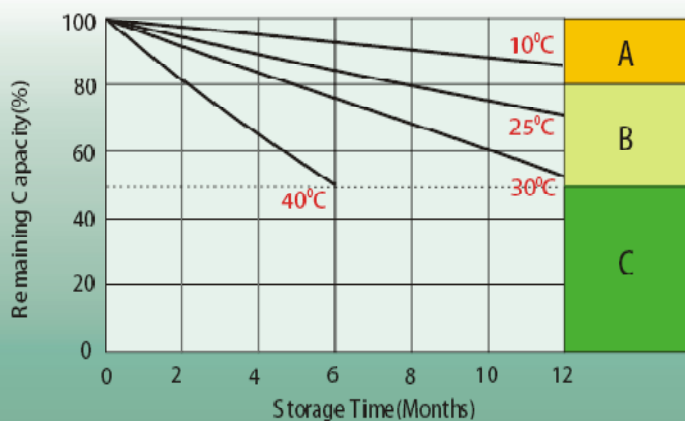
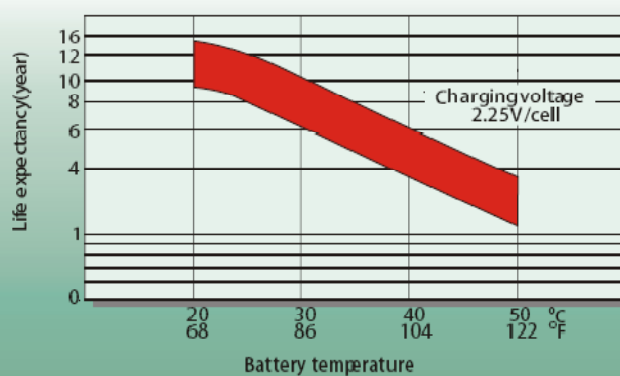
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8~10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.



Sunbright Power Co., Ltd.

