

OFTOB ENERGY - OE-BG-S/GFM-100 Gel Battery Specification



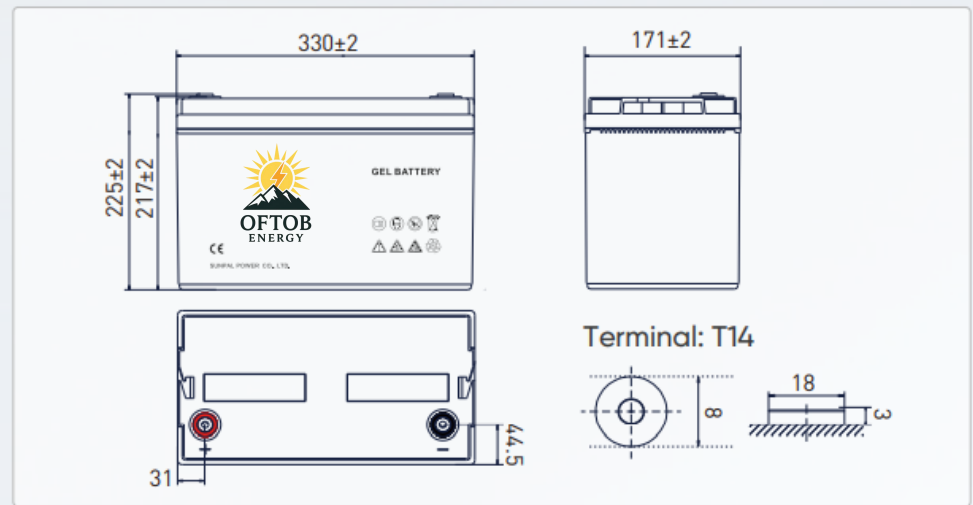
Application:

- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life

Specification

Nominal Voltage		12V
Rated Capacity(10 hour rate)		100Ah
Dimension	Length	330±2mm(13.0in)
	Width	171±2mm(6.73in)
	Height	217±2mm(8.55in)
	Total Height (With terminals)	225±2mm(8.86in)
Weight		Approx 28.8kg+2%(63.5lbs)

Dimension



Characteristic		
Capacity 25°C (77°F)	10 hour rate (10.0A)	100AH
	5 hour rate (17A)	85AH
	1 hour rate (60A)	60AH
Internal Resistance	Full charged Battery 25°C (77°F)	4.5mΩ
Capacity affected by Temperature (10 hour rate)	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
Self-Discharge 25°C (77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	65%
Max. Discharge Current	1400A (5S) 25°C (77°F)	
Terminal	Standard	T14
	Optional	T5
Charging (Constant Voltage)	Cycle	Initial Charging Current 25A or small 14.40~15.00V 25°C (77°F)
	Float	13.50~13.80V 25°C (77°F)



Constant Current Discharge(Amperes) at 25°C(77°F)											
F.V/Time	15min	30min	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	140	84.7	51.5	32.1	23.9	19.6	16.7	13.6	11.3	9.69	5.05
1.80V/cell	153	91.3	54.9	33.8	25.0	20.4	17.4	14.6	11.7	10.0	5.18
1.75V/cell	164	96.5	57.5	35.0	25.9	21.1	17.9	15.0	12.0	10.2	5.29
1.70V/cell	172	101	59.5	36.0	26.5	21.6	18.3	15.3	12.2	10.4	5.36
1.65V/cell	178	104	61.0	36.7	27.0	21.9	18.5	15.7	12.4	10.6	5.42
1.60V/cell	183	106	62.2	37.3	27.4	22.2	18.8	16.0	12.5	10.7	5.47

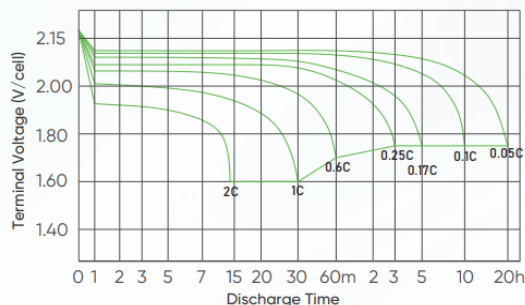


Constant Power Discharge(Watts/cell) at 25°C(77°F)

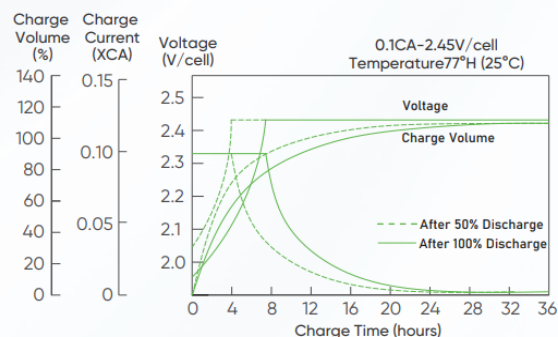
F.V/Time	15min	30min	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	267	164	101	63.4	47.4	38.9	33.2	26.7	22.7	19.5	10.2
1.80V/cell	288	175	107	66.3	49.3	40.4	34.5	28.6	23.4	20.1	10.4
1.75V/cell	304	184	111	68.4	50.8	41.6	35.3	29.3	24.0	20.5	10.6
1.70V/cell	314	189	115	70.0	51.8	42.4	36.0	29.9	24.4	20.9	10.8
1.65V/cell	323	194	117	71.1	52.7	43.0	36.5	30.4	24.7	21.1	10.9
1.60V/cell	325	195	118	71.7	53.0	43.3	36.7	31.0	24.8	21.3	10.9



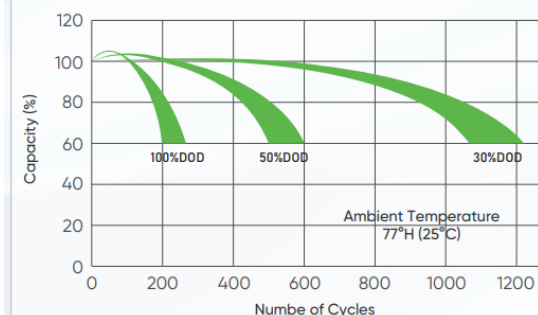
Discharge Characteristics



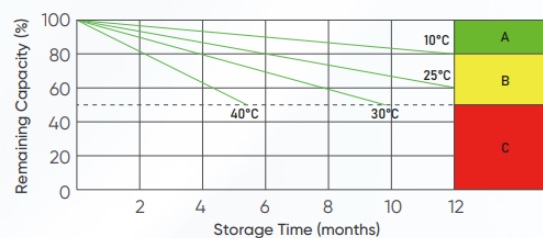
Float Charge Characteristics



Cycle Life in Relation to Depth of Discharge



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 20 hours at limited current 0.2CA and constant voltage 2.45V/cell.
2.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.

