GreensunSolar

AGM SERIES Battery Technical Data

GFM100-2 (2V100AH)

Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	100.0AH	
Dimensions	Length	170±2mm (6.69 inches)
	Width	71±1mm (2.83 inches)
	Container Height	205±3mm (8.07 inches)
	Total Height (with Terminal)	212±3mm (8.35 inches)
Approx Weight	Approx 5.8 kg (12.8lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	105.0 AH/5.25A	(20hr ,1.80V/cell,25°C/77°F)
	100.0 AH/10.0A	(10hr,1.80V/cell,25°C/77°F)
	87.0 AH/17.4A	(5hr,1.75V/cell,25°C/77°F)
	75.6 AH/25.2A	(3hr,1.75V/cell,25°C/77°F)
	60.7 AH/60.7A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	800A (5s)	
Internal Resistance	Approx 1.4mΩ	
Operating Temp.Range	Discharge : -15～50°C (5～122°F)	
	Charge : 0～40°C (32～104°F)	
	Storage : -15～40°C (5～104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 30.0A.Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	GFM series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- *Tele-communication central station(wired or cellular)*
- *Power system communication,military communication, etc.*
- *Network communication including: data transmission, television signal transmission, etc.*
- *Uninterruptable Power System (UPS- for Telecom)*

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	103.0	92.7	76.7	60.8	49.9	30.0	23.2	19.0	16.2	14.2	11.4	9.55	5.07
1.80V/cell	117.0	103.2	82.3	64.0	53.0	31.6	24.3	19.9	16.9	14.8	11.8	10.0	5.25
1.75V/cell	128.5	111.2	87.1	67.3	55.3	32.9	25.2	20.6	17.4	15.1	12.1	10.1	5.30
1.70V/cell	137.2	119.0	91.4	69.8	57.2	33.9	25.9	21.0	17.7	15.4	12.3	10.2	5.36
1.65V/cell	144.6	124.8	95.9	72.8	59.3	34.9	26.4	21.5	18.1	15.7	12.4	10.3	5.42
1.60V/cell	151.6	129.5	99.2	74.8	60.7	35.8	27.0	21.8	18.3	15.9	12.6	10.5	5.49

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

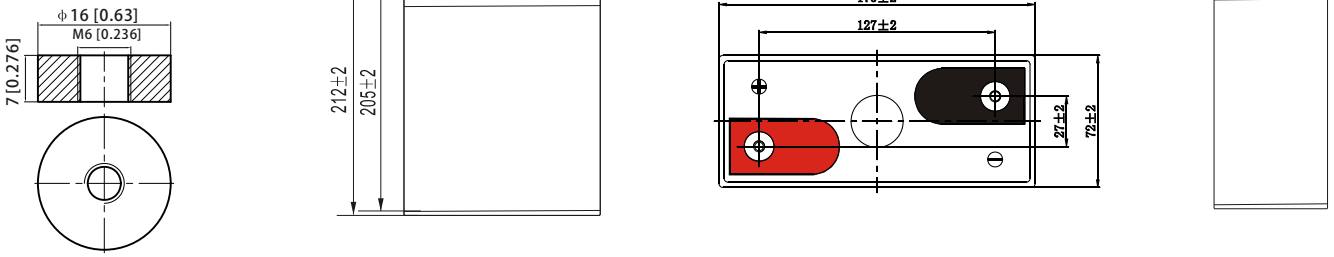
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	195.0	176.3	146.5	116.9	96.5	58.3	45.3	37.3	31.9	28.0	22.6	19.0	10.1
1.80V/cell	218.7	194.2	156.0	122.2	101.9	61.2	47.3	38.8	33.1	29.1	23.4	19.9	10.4
1.75V/cell	236.9	207.0	163.9	127.7	105.9	63.5	48.9	40.0	34.0	29.7	23.8	20.0	10.5
1.70V/cell	250.2	219.4	170.5	131.6	109.0	65.1	50.0	40.7	34.5	30.2	24.2	20.2	10.6
1.65V/cell	260.4	227.8	177.6	136.6	112.3	66.8	50.9	41.5	35.1	30.6	24.4	20.4	10.7
1.60V/cell	268.5	233.6	181.8	138.9	114.2	67.9	51.7	41.9	35.5	30.9	24.7	20.6	10.9

Specifications subject to change without notice.

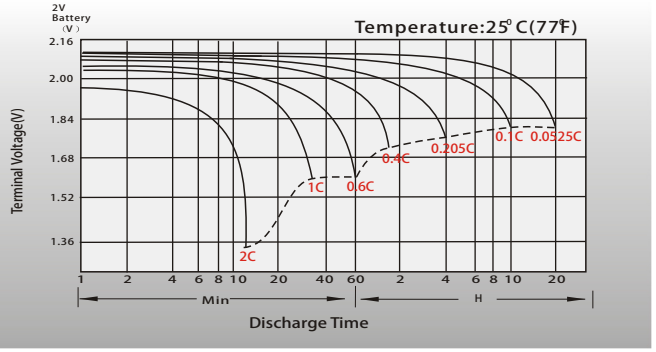
Dimensions

T6 Terminal

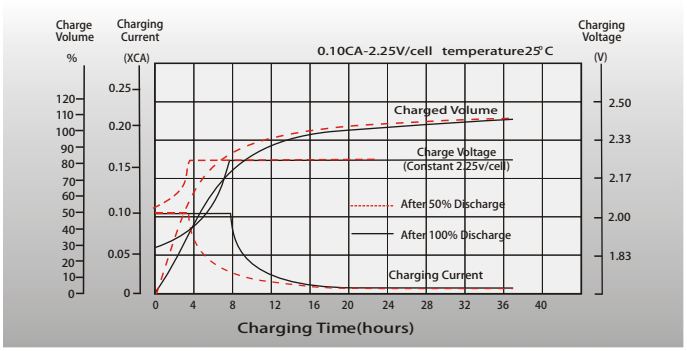
Unit: mm [inches]



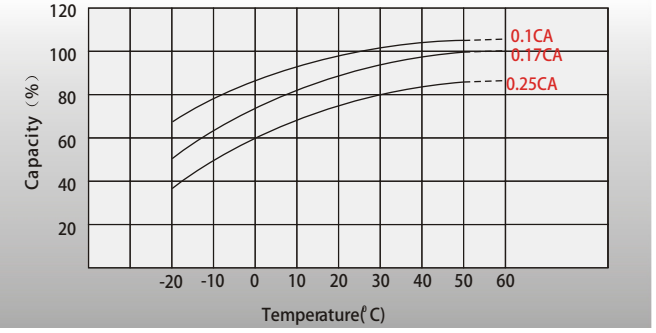
Discharge Characteristics



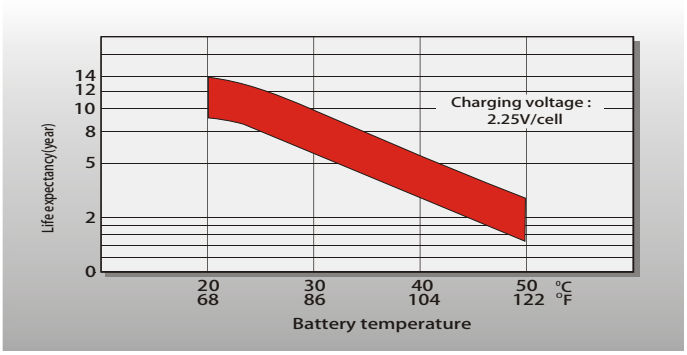
Float Charging Characteristics



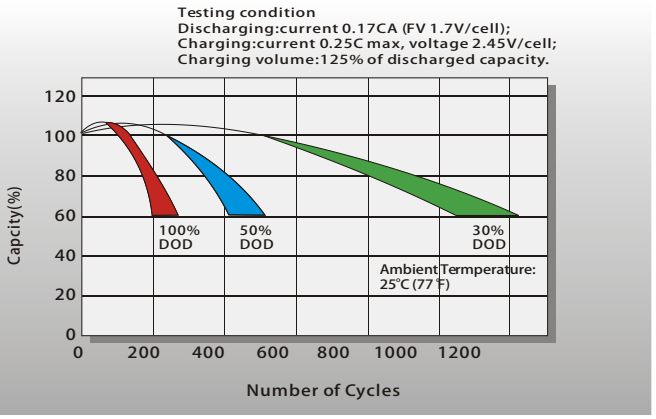
Temperature Effects in Relation to Battery Capacity



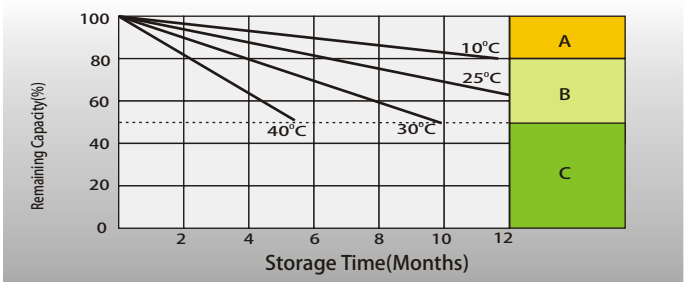
Effect of Temperature on Long Term Float Life



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 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Contact US

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