

# GFM

## Series VRLA Battery

### GFM-200



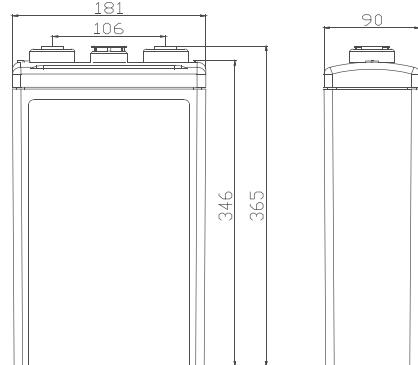
### Main Applications

- Backup power for telecom and signal system
- Backup power for electric system and nuclear plants
- Storage for solar, wind and hydroelectricity energy
- Backup power for military and maritime equipment
- Backup power for UPS, emergency lighting

### Benefits

- Reduce operational cost
- Excellent deep cycling performance
- Reduce CO<sub>2</sub> emission
- Long life

### Dimensions



### Technical Parameters

Nominal Voltage	2 V
Capacity	200 Ah@10hr to 1.80 V@ 25°C(77°F)
Weight	12.3 kg (27.12 lbs)
Dimensions	Length: 90 mm (3.54 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.90 mΩ
Short- circuit Current	2460 A
Self Discharge @25°C(77°F)	Less than 3% after 30 days storage
Operating Temperature Range	Discharge: -40°C ~ 50°C(-40°F ~ 122°F) Charge: -20°C ~ 45°C(-4°F ~ 113°F) Storage: -20°C ~ 40°C(-4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 25°C (59°F ~ 77°F)
Recommended Charging Current	30 A
Charging Voltage @25°C(77°F)	Float: 2.23 V/cell Equalize: 2.35 V/cell
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature (C <sub>10</sub> )	106% @ 40°C(104°F) 80% @ 0°C(32°F) 50% @ -20°C(-4°F)
Design life @25°C(77°F)	15years

### Certification

- ISO 9001
- ISO 14001
- GB/T 28001
- UL
- CE

### Technical Features

- Good performance for charge
- acceptability Excellent capacity retention
- rate Excellent capacity recovery
- performance Long life design for cyclic or float application

# GFM

## Series VRLA Battery

### GFM-200



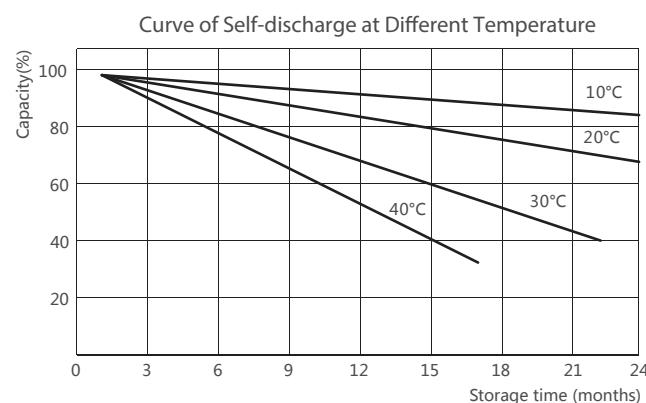
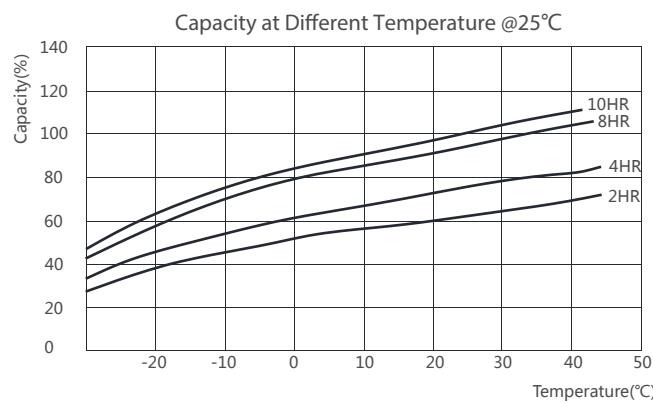
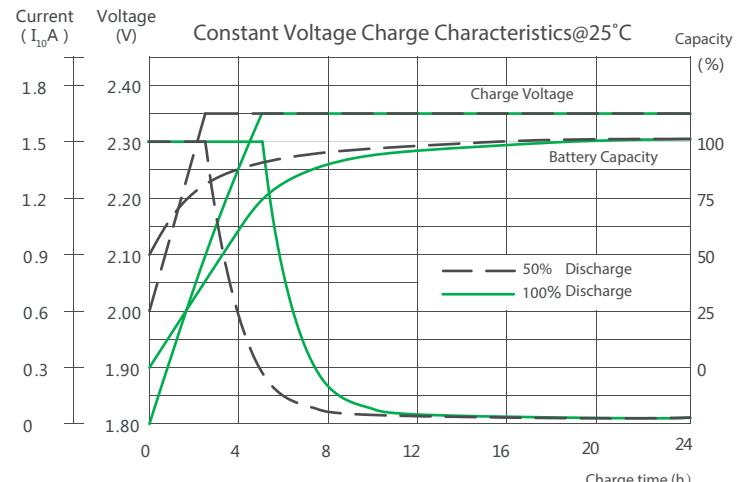
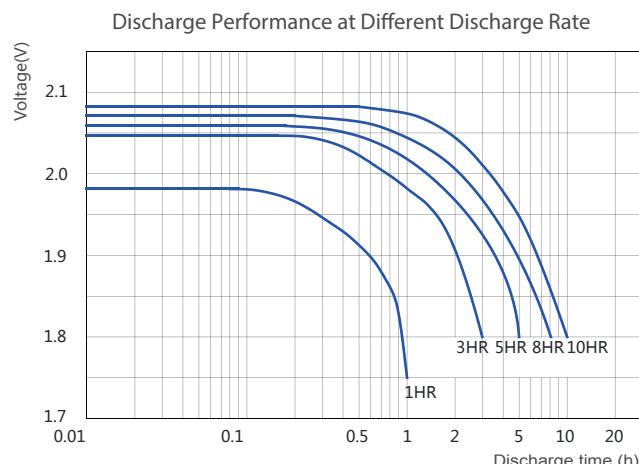
#### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	86	77	59	45.6	37.7	30.9	26.1	22.1	18.4
1.85V	93	88	64	50.3	40.3	33.6	28.1	23.5	19.9
1.80V	101	91	67	53.4	41.9	35.5	30.7	24.2	20.7
1.75V	113	95	70	54.8	42.8	36.2	31.3	24.7	21.0
1.70V	126	99	73	55.9	43.4	36.7	31.7	24.8	21.2
1.65V	131	101	74	56.3	43.8	36.9	31.9	24.9	21.3

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

F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	160	153	118	91.6	76.1	62.5	52.8	44.8	37.4
1.85V	173	171	124	99.8	80.7	67.4	56.5	47.3	40.2
1.80V	189	175	131	104.9	83.3	71.0	61.5	48.4	41.5
1.75V	215	182	136	107.2	84.7	72.1	62.5	49.3	42.0
1.70V	237	188	139	108.9	85.9	72.9	63.1	49.6	42.4
1.65V	244	190	142	109.5	86.4	73.2	63.5	49.7	42.5

#### Performance Curve



#### \*Declaration:

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information.

Welcome to Visit : [www.chinashoto.com](http://www.chinashoto.com)