

GFM

Series VRLA Battery

GFM-600



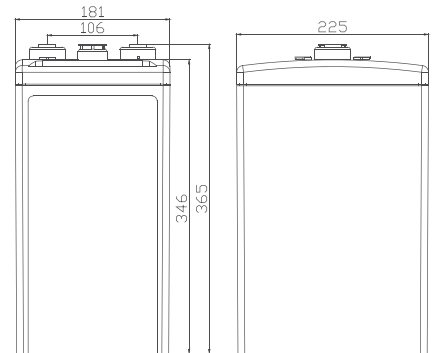
Main Applications

- ▶ 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 CO₂ emission
- ▶ Long life

Dimensions



Technical Parameters

Nominal Voltage	2 V
Capacity	600 Ah @ 10hr to 1.80 V @ 25°C(77°F)
Weight	33.2 kg (73.19 lbs)
Dimensions	Length: 181 mm (7.13 in) Width: 225 mm (8.86 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.39 mΩ
Short-circuit Current	5300 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	90 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 ₁₀)	106% @ 40°C(104°F) 85% @ 0°C(32°F) 60% @ -20°C(-4°F)
Design life @25°C(77°F)	15 years

Certification

- ISO 9001: 2008
- ISO 14001: 2004
- GB/T 28001- 2011
- UL
- CE

Technical Features

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



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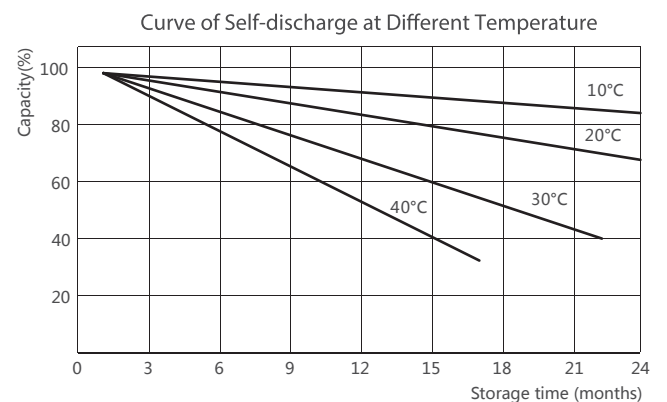
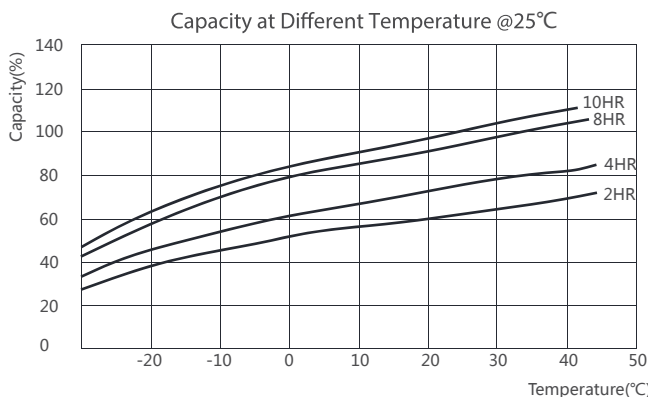
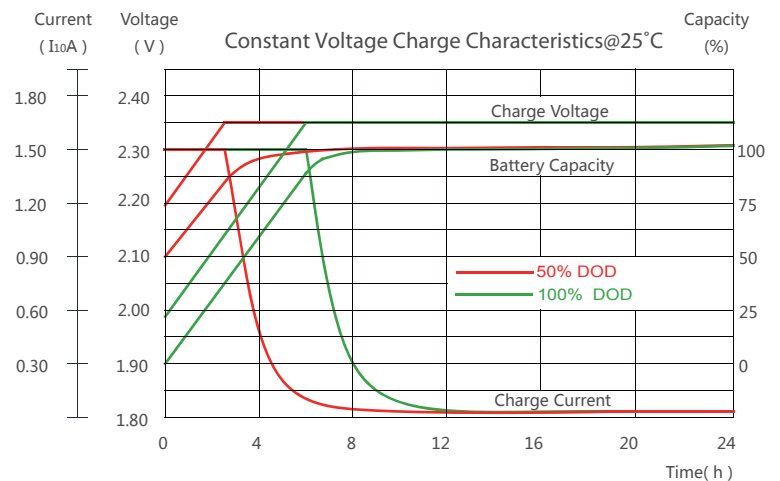
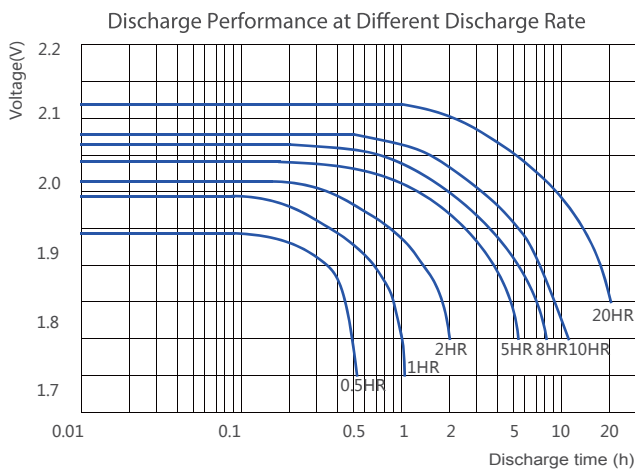
Constant Current Discharge Characteristics Unit: A (25°C,77°F)

F.V/Time	1h	1.5h	2h	3h	4h	5h	6h	8h	10h
1.90V	237	215	173	129.2	108.7	89.4	76.5	65.7	53.6
1.85V	259	244	185	142.5	116.3	97.1	82.4	69.8	58.1
1.80V	309	252	196	150.9	121.2	102.9	90.2	71.8	60.3
1.75V	333	263	205	154.7	123.1	104.8	92.2	73.3	61.2
1.70V	350	275	212	158.5	125.0	105.8	93.1	73.8	61.7
1.65V	365	281	217	159.4	126.0	106.7	94.1	74.1	61.9

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	465	424	343	259.4	219.2	180.2	155.3	133.2	109.0
1.85V	508	475	362	282.1	232.7	194.5	166.3	140.4	117.1
1.80V	597	486	381	297.2	240.4	204.7	181.0	143.9	121.0
1.75V	628	505	396	303.8	244.2	207.9	183.9	146.4	122.3
1.70V	659	522	406	308.5	248.1	210.2	185.7	147.3	123.4
1.65V	678	528	413	310.4	249.0	211.2	186.7	147.7	123.7

Performance Curve



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