

# 6-GFM Series

VRLA Battery  
6-GFM-14



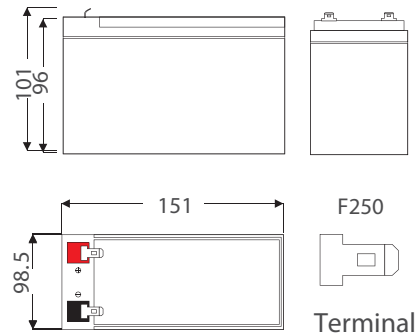
## Main Applications

- ▶ UPS/EPS
- ▶ Power systems
- ▶ Telecommunications system
- ▶ Emergency lighting- Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

## Benefits

- ▶ Optimized capability of instant high-current discharging
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Long life

## Dimensions



## Technical Parameters

Nominal Voltage	12V
Nominal Capacity	14.0Ah
Design life	5 years
Terminal	F250
Approx. Weight	Approx 3.80kg (8.38lbs)
Container Material	ABS
Rated Capacity	14.0Ah 20Hour Rate (0.70A to 10.5V) 9.33Ah 3Hour Rate ( 3.11A to 10.5V) 7.92Ah 1Hour Rate (7.92A to 9.60V)
Internal resistance	Full charged at 25°C: 18.0 mΩ
Max. Discharge Current	210A(5S)
Operating Temperature	Discharge: -20 ~50°C (-4 ~ 122°F) Charge : -20 ~50°C (-4 ~ 122°F) Storage: -20 ~50°C (-4 ~ 122°F)
Charge Method (25 °C)	Charge current: Max. 3.50A; Recom.1.40A Float Charge voltage(-3mV/°C): 13.5-13.8V, recom.13.5V(Full floating system) 13.5-13.8V, recom.13.62V(Cycle use system) Equalize charge:13.8-14.1V, recom.14.1V(-4mV/ °C) Cycle charge:14.4-15.0V, recom.14.4V(-5mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

## Certification

- ISO9001: 2008  
(NO.03015Q10076R4M)
- ISO14001: 2004  
(NO.03016E10080R2L)
- GB/T 28001-2011  
(NO.03014S10092R2M)

## Technical Features

- ▶ High corrosion resistant performance:  
Pb-Ca multi-alloy grid
- ▶ High energy density and power density
- ▶ Excellent charge acceptance ability
- ▶ Precision sealing technology

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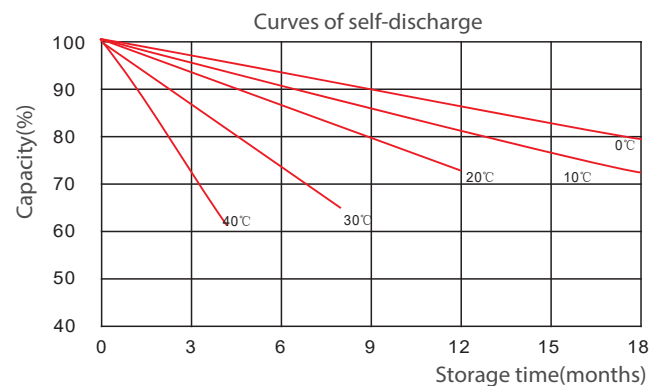
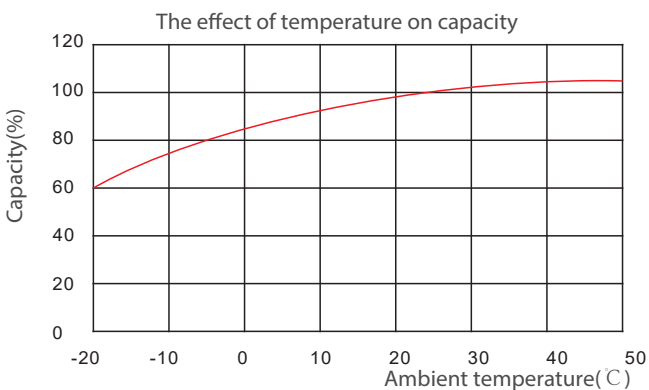
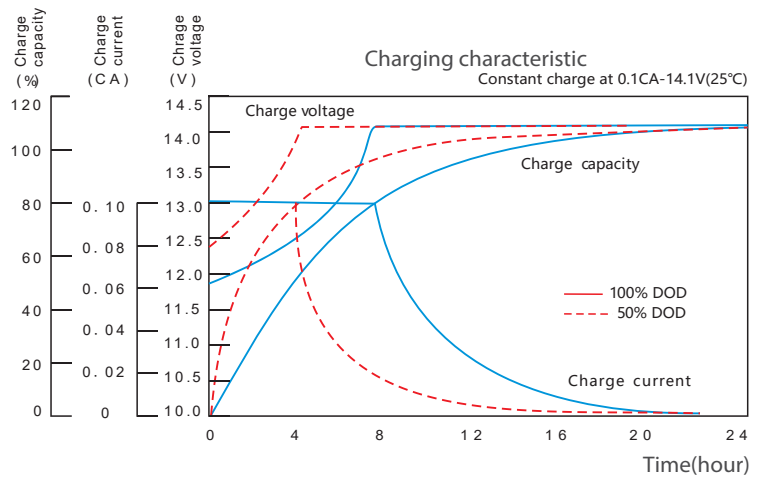
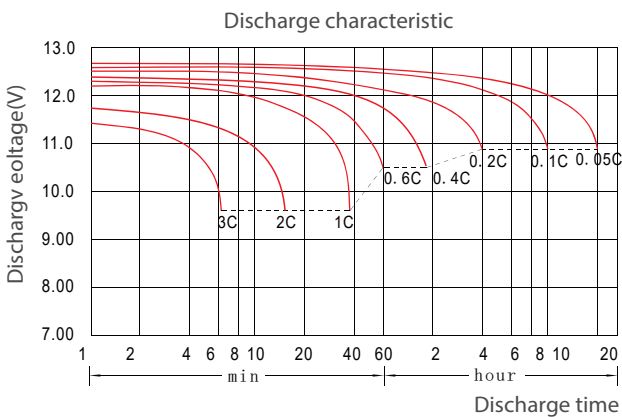
## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	55.4	36.3	27.0	17.7	9.24	5.29	3.86	3.09	2.63	1.74	1.39	0.742
1.65V	55.0	34.7	24.8	16.8	8.68	5.08	3.75	3.00	2.58	1.71	1.37	0.728
1.70V	45.1	32.6	23.1	16.3	8.40	4.98	3.68	2.84	2.55	1.68	1.34	0.714
1.75V	41.9	31.1	21.6	15.9	8.11	4.86	3.63	2.80	2.44	1.64	1.32	0.700
1.80V	38.5	29.3	20.0	15.4	7.83	4.73	3.43	2.74	2.34	1.60	1.29	0.672

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

F.V/Time	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.60V	104	65.3	49.5	29.9	16.9	9.92	7.30	5.86	4.97	3.28	2.69	1.47
1.65V	95.9	61.8	46.4	29.7	15.9	9.54	7.09	5.67	4.88	3.23	2.63	1.43
1.70V	87.7	60.0	44.3	29.6	15.4	9.36	6.98	5.39	4.74	3.19	2.61	1.42
1.75V	79.6	58.1	42.7	29.3	15.0	9.15	6.88	5.32	4.64	3.06	2.55	1.39
1.80V	71.4	56.2	40.8	29.1	14.8	9.08	6.70	5.27	4.53	2.96	2.50	1.38

## Performance Curve



**\*Declaration:**

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