

# 6-GFM-H Series

High Power Battery  
6-GFM-85H



## Main Applications

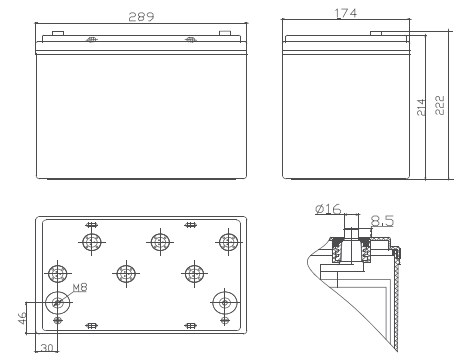
- ▣ IDC and UPS
- ▣ High power & large current application scenarios
- ▣ Backup power for high precision device
- ▣ Emergency lighting, navigation lights

## Benefits

- ▣ Specifically designed for high power & large current application scenarios with superior high rate, short term power
- ▣ Designed life of 12 years
- ▣ Low annual operating cost,
- ▣ High security, reliability and stability



## Dimensions



## Technical Parameters

Nominal Voltage	12 V
Capacity	85 Ah @ 10hr to 1.80 V @ 25°C(77°F)
Weight	28.2 kg (62.2 lbs)
Dimensions	Length: 289 mm (11.38 in) Width: 174 mm (6.85 in) Height: 214 mm (8.43 in) Total height: 222 mm (8.74 in)
Internal Resistance (full charged)	3.9 m $\Omega$
Short-circuit Current	2450 A
Self Discharge @25°C(77°F)	Less than 8% after 90 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	12.5 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 Temperature(C <sub>10</sub> )	105% @ 40°C (104°F) 85% @ 0°C (32°F) 60% @ -20°C (-4°F)
Design life @25°C(77°F)	12 years

## Certification

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

## Technical Features

- ▣ Lower internal resistance and voltage drop, suited for high rate discharge applications and high efficient UPS
- ▣ Lower self-discharge rate, better charge acceptability and higher sealing reaction efficiency
- ▣ Exquisite craftsmanship and good coherence of internal resistance, capacity

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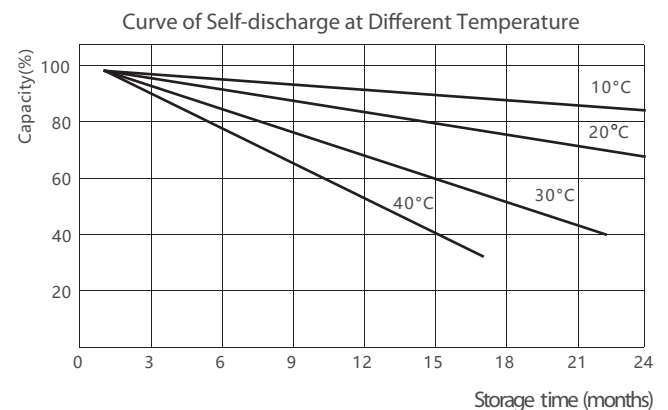
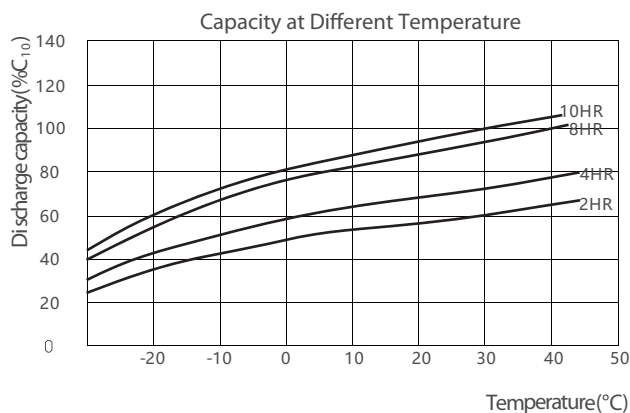
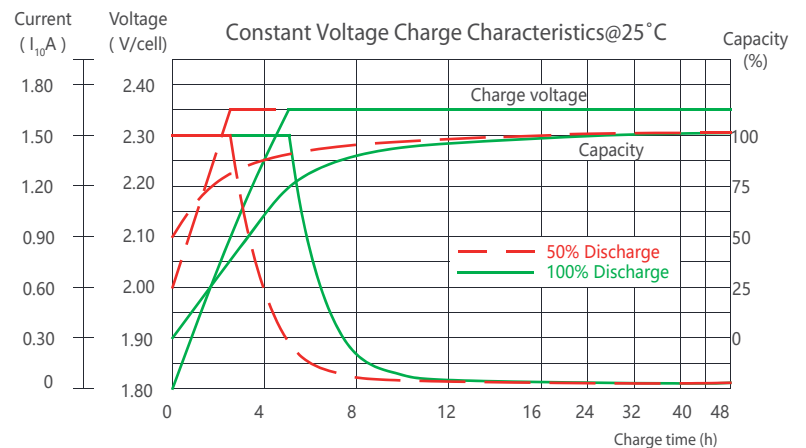
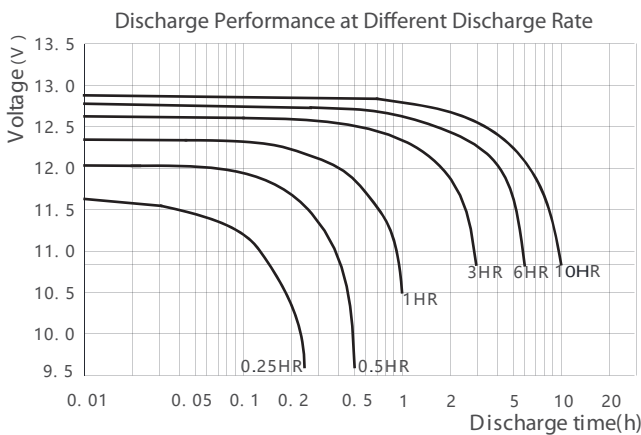
## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	30min	1hr	1.5hr	2hr	3hr	6hr	10hr
1.60V	309	210	162	105	60	46.0	35.9	24.9	14.0	8.9
1.67V	274	193	152	100	57	44.6	35.2	24.5	13.6	8.8
1.70V	257	185	146	96	56	42.7	34.5	24.1	13.3	8.7
1.75V	230	170	136	91	52	40.1	33.8	23.7	13.0	8.6
1.80V	204	156	128	84	48	37.5	33.1	23.3	12.8	8.5
1.85V	177	143	119	79	46	35.6	31.8	22.4	12.3	8.4

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

F.V/Time	5min	10min	15min	30min	1hr	1.5hr	2hr	3hr	6hr	10hr
1.60V	588	401	339	203	116	89.7	70.4	49.1	27.7	17.7
1.67V	523	370	330	194	112	87.3	69.3	48.5	27.1	17.6
1.70V	493	358	319	188	109	84.0	68.3	48.0	26.6	17.5
1.75V	443	330	298	178	103	79.4	67.3	47.4	26.1	17.4
1.80V	396	303	281	165	96	74.7	66.2	46.8	25.9	17.3
1.85V	345	280	263	157	91	71.3	63.9	45.2	25.0	17.1

## Performance Curve



### \*Declaration:

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