

GFM-U Series

High Power Battery

GFM-400U



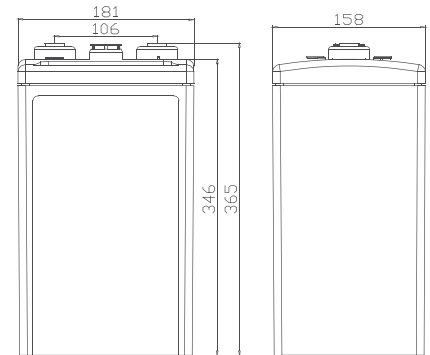
Main Applications

- ▣ 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	2 V
Capacity	400 Ah @ 10hr to 1.80 V per cell @ 25°C(77°F)
Weight	24.1 kg (53.13 lbs)
Dimensions	Length: 158 mm (6.22 in) Width: 181 mm (7.13 in) Height: 346 mm (13.62 in) Total height: 365 mm (14.37 in)
Internal Resistance (full charged)	0.42 mΩ
Short-circuit Current	6400 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	60 A
Charging Voltage @25°C(77°F)	Float: 2.25 V/cell Equalize: 2.35 V/cell
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature (C ₁₀)	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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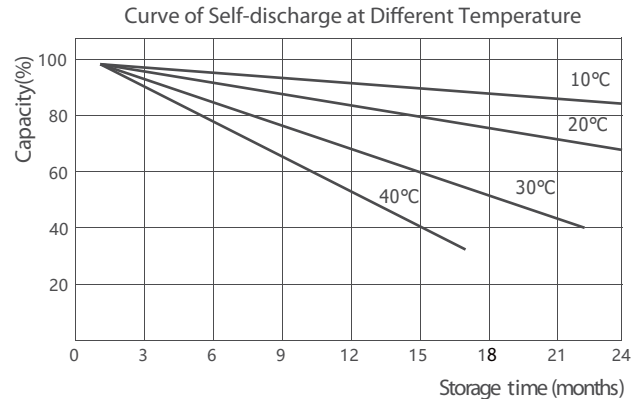
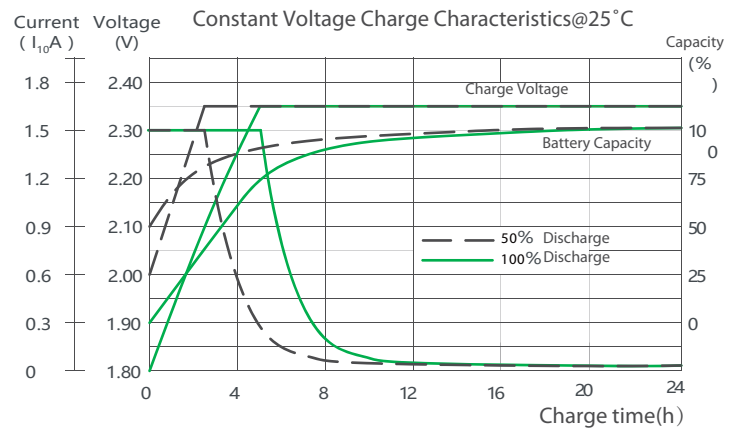
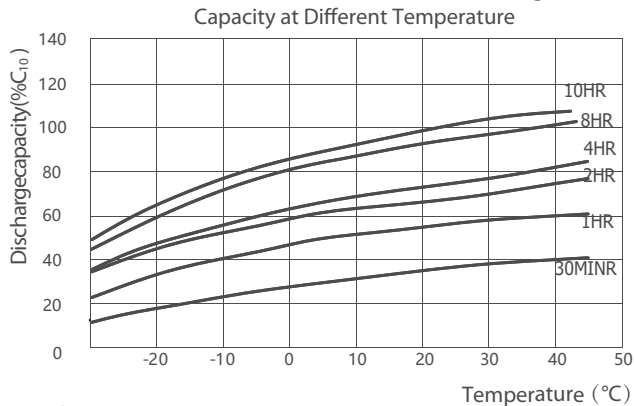
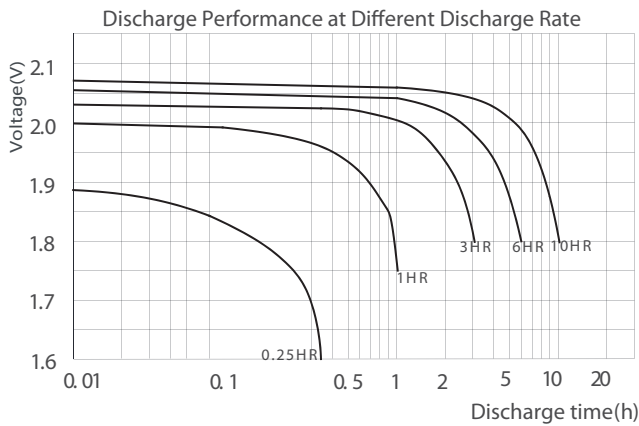
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	741	480	277	--	--	--	--	--	--	--
1.67V	685	461	269	158	110.7	91.9	79.9	68.7	52.4	43.7
1.70V	645	449	264	156	109.3	90.3	79.3	68.3	51.5	43.3
1.75V	591	436	253	151	107.3	89.5	78.9	67.3	51.1	42.0
1.80V	523	383	227	147	105.3	88.0	78.7	66.7	50.5	40.5
1.85V	436	319	178	140	98.4	81.3	74.5	64.3	48.7	39.6

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

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	1236	825	496	--	--	--	--	--	--	--
1.67V	1181	805	488	289	204.0	170.5	152.1	131.7	101.1	84.7
1.70V	1141	801	482	286	202.7	168.5	152.0	131.3	99.5	84.0
1.75V	1071	792	467	282	199.1	167.2	151.5	129.7	98.9	81.9
1.80V	964	706	421	275	196.7	165.5	151.2	129.2	98.4	79.7
1.85V	819	601	342	271	190.7	159.3	149.3	128.8	97.6	79.5

Performance Curve



*Declaration:

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