

6-GFM-U Series

High Power Battery
6-GFM-40U



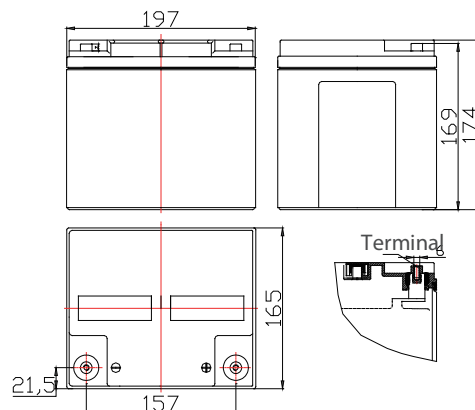
Main Applications

- Uninterruptible power supply (UPS)
- High power or large current application scenarios
- Emergency lighting, navigation lights

Benefits

- Specifically designed for high power & large current application scenarios with superior high rate, short term power
- 10 years design life
- Annual failure rate is less than 0.2%

Dimensions



Technical Parameters

Normal Voltage	12V
Capacity	40 Ah @ 10hr to 1.80V per cell @ 25 °C (77 °F)
Weight	Approx. 13.2kg (29.0 lbs)
Dimensions	Length: 197mm Width: 165mm Height: 170mm Total Height: 174mm
Internal Resistance (full charged)	Approx. 8.0mΩ @ 25 °C (77 °F)
Maximum Discharge Current	235A (5sec)
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 ~ 50 °C (-4 °F ~ 122 °F) Storage: -20 °C ~ 45 °C (4 °F ~ 113 °F)
Recommended Operating Temperature	15 °C ~ 25 °C (59 °F ~ 77 °F)
Maximum Charging Current Limited	8A
Charging Voltage @ 25 °C (77 °F)	Float: 2.25 V/cell, Temps coefficient -3 mV/°C Cycle: 2.35 V/cell
Terminal	M6
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature	105 % @ 40 °C 85 % @ 0 °C 60 % @ -20 °C
Design Life @ 25 °C (77 °F)	10 years

Attain Certificate

- ISO9001:2008
(NO.03015Q10076R4M)
- ISO14001:2004
(NO.03016E10080R2L)
- GB/T28001-2011
(NO.03014S10092R2M)

Technical Features

- Lower internal resistance and voltage drop, suited for high rate discharge applications and high efficient UPS
- Exquisite craftsmanship and good coherence of internal resistance capacity
- High stability and security, more than one million units in service

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.

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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	2.5hr	3hr	4hr	6hr	8hr	10hr	20hr
1.60V	143	106	82.0	50.9	28.6	17.2	14.7	12.6	11.4	8.41	6.25	4.95	4.36	2.19
1.67 V	140	103	80.9	50.3	28.3	16.9	14.5	12.4	11.2	8.34	6.16	4.92	4.33	2.17
1.70V	134	100	78.2	48.9	27.7	16.5	14.2	12.0	10.8	8.26	6.02	4.85	4.27	2.14
1.75V	122	91.2	71.2	46.7	27.0	16.0	14.0	11.8	10.6	8.25	6.00	4.76	4.15	2.11
1.80V	107	80.2	67.2	44.8	26.1	15.7	13.8	11.7	10.5	8.15	5.95	4.62	4.09	2.08
1.85V	93.5	75.3	58.5	42.1	25.1	14.8	13.5	11.4	10.3	7.96	5.83	4.53	3.94	2.04

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

F.V/Time	5min	10min	15min	30min	1hr	1.5hr	2hr	2.5hr	3hr	4hr	6hr	8hr	10hr	20hr
1.60V	247	183	142	88.1	49.5	34.5	27.8	24.7	21.5	16.5	12.7	9.92	8.71	4.78
1.67V	242	179	141	87.5	49.2	34.3	27.6	24.5	21.3	16.4	12.5	9.81	8.63	4.76
1.70V	237	177	138	86.6	49.0	33.7	27.1	24.1	21.0	16.3	12.1	9.57	8.43	4.74
1.75V	221	165	129	84.5	48.9	33.3	27.0	23.9	20.7	16.2	11.9	9.49	8.16	4.70
1.80V	198	148	124	82.9	48.3	33.0	26.8	23.7	20.6	16.0	11.8	9.27	8.02	4.62
1.85V	178	143	111	80.0	47.7	31.7	26.5	23.5	20.4	15.8	11.7	8.94	7.93	4.57

Performance Curve

