

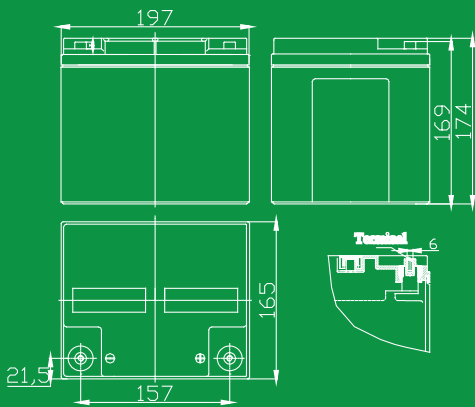
6-GFM-U Series UPS Battery 6-GFM-40U



power the future



Dimensions



Compliant Standards

- * GB/T19638.2-2005
- * YD/T799-2010
- * JISC8704-2: 1999
- * IEC60896-21: 2004

Attain Certificate

- ISO9001 (NO.03006Q10084R1M)
- ISO14001 (NO.03004E1009R0M)
- ISO18001 (NO.03004E1009R0M)
- UL (NO.MH28466)
- CE (NO.ED/2007/30041C)
- Russia telecom

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‰
- High performance/ price ratio and low annual operating cost

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

Technical Parameters

Normal Voltage	12V
Capacity	40Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	13.0 kg (28.6 lbs)
Dimensions	Length: 197mm(7.76in) Width: 165mm(6.50in) Height: 169mm(6.65in) Total height: 174mm(6.85in)
Internal Resistance (full charged)	8.0mΩ (According to IEC 60896 -21)
Maximum Discharge Current	235A (5s)
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)
Recommended Charging Current	6.0 A
Charging Voltage @25°C(77°F)	Float: 2.25 V/cell Equalize: 2.35 V/cell
Terminal	M6
Capacity Affected by Temperature	105 % @ 40°C 85 % @ 0°C 60 % @ -20°C
Design Life @25°C	10 years

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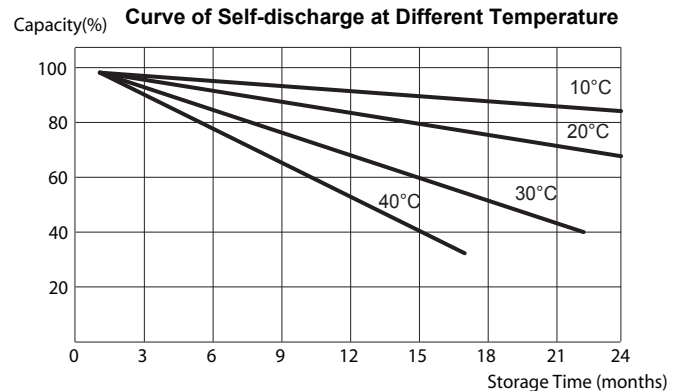
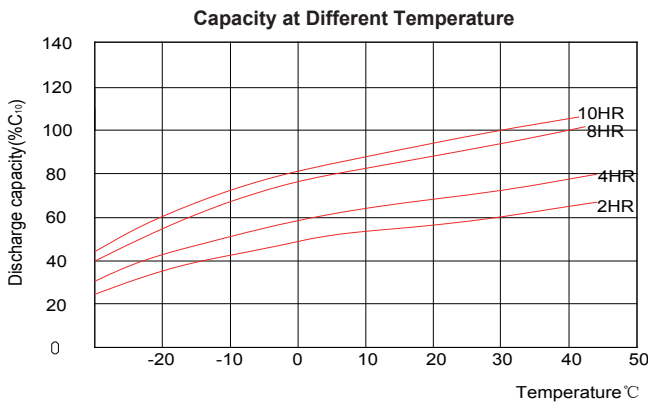
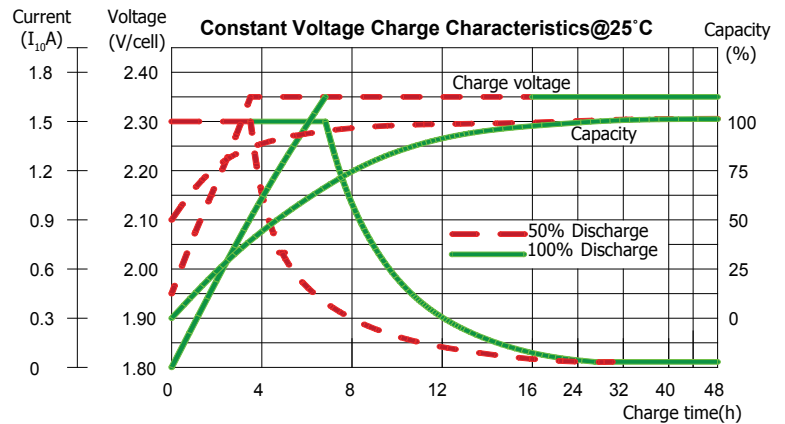
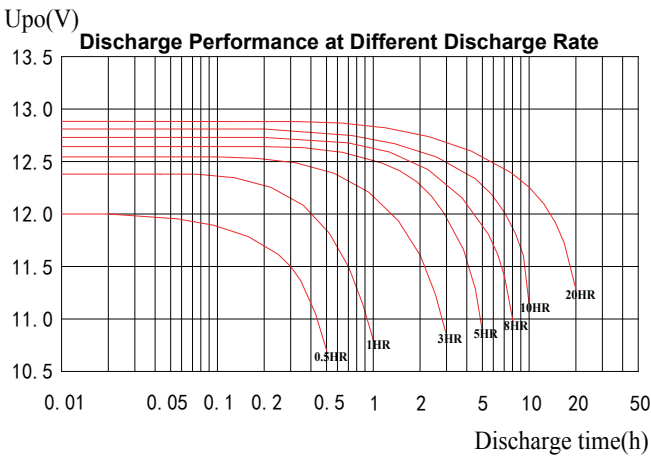
• Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

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
1.67V	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	5.9.5	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 (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



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.