



FGC23007

12Volt 30Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(1.5A	to	10.50V)	30Ah
10 hour rate	(2.85A	to	10.50V)	28.5Ah
5 hour rate	(5.1A	to	10.20V)	25.5Ah
1 C	(30A	to	9.60V)	17Ah
3 C	(90A	to	9.60V)	12Ah

Weight Approx. 9.3kg(20.5Lbs.)

Internal Resistance (at 1KHz) Approx. 9.5 mΩ

Maximum Discharge Current for 5 seconds: 450A

Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 9A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C/cell

Operating Temperature Range

Charge -15°C(5°F) to 40°C(104°F)

Discharge -15°C(5°F) to 50°C(122°F)

Storage -15°C(5°F) to 40°C(104°F)

Charge Retention (shelf life) at 20°C(68°F)

1 month	92%
3 month	90%
6 month	80%

Case Material ABS UL94 HB

Terminal F8

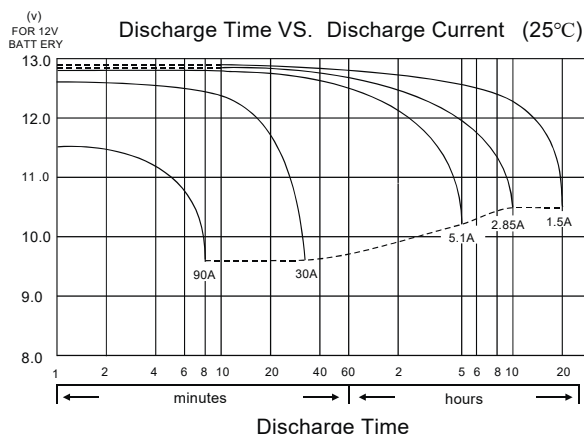
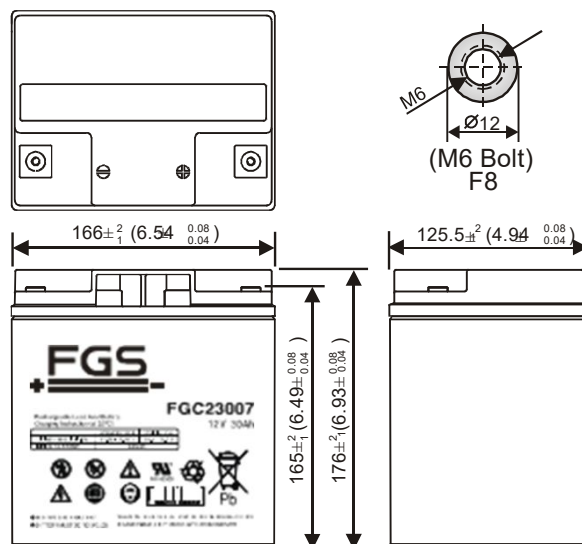
Description of torque value of hard ware for the terminals:

Recommended torque value	M6: 7 N-m (71kgf-cm)
Maximum allowable torque value	M6: 9 N-m (92kgf-cm)

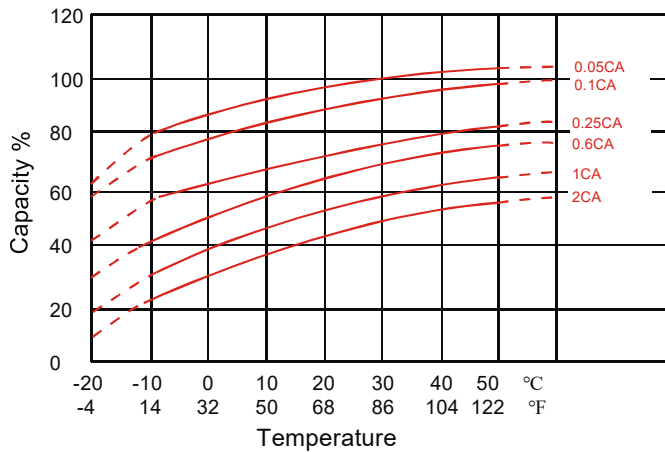


Dimensions

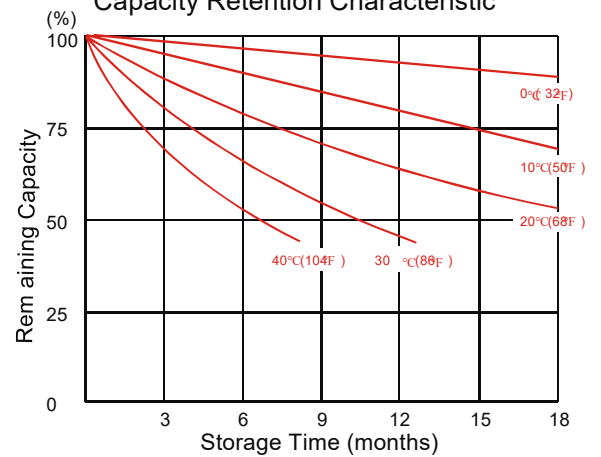
mm(inch)



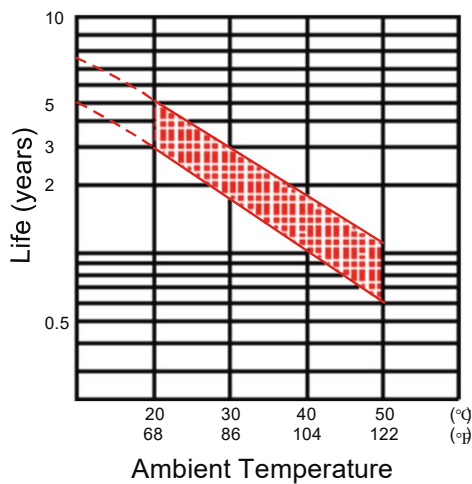
Effect of Temperature on Capacity 25°C °F (77 °F)



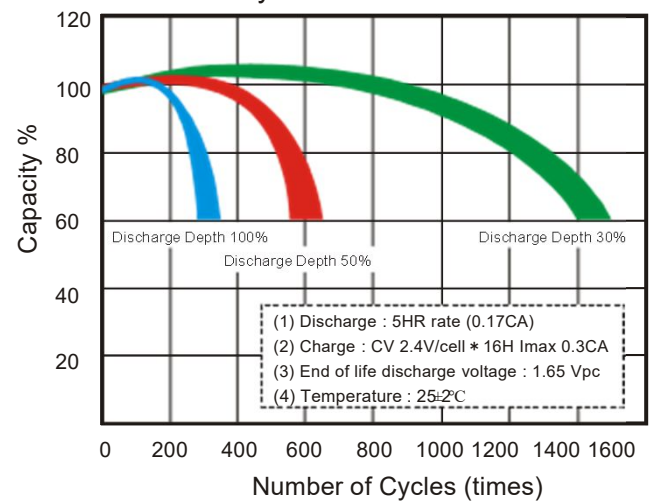
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life





- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	145	167	183	188	195	201	210
10	min	111	120	128	132	136	139	144
15	min	90.0	96.7	105	107	109	111	113
30	min	56.7	59.9	61.8	62.7	63.3	64.0	64.5
60	min	36.5	37.3	38.0	38.3	38.7	39.0	39.3
120	min	21.8	22.3	23.0	23.2	23.3	23.5	23.7
180	min	16.2	16.5	16.7	16.8	17.0	17.2	17.3
240	min	12.4	12.7	13.1	13.2	13.3	13.4	13.6
300	min	10.4	10.6	10.7	10.8	11.0	11.0	11.1
600	min	5.92	6.08	6.22	6.23	6.25	6.27	6.28
1200	min	3.18	3.22	3.28	3.30	3.32	3.33	3.35

- Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	74.5	89.8	105	108	112	115	121
10	min	59.5	72.5	68.3	71.0	73.5	76.3	79.2
15	min	46.5	50.0	54.3	55.7	57.0	58.3	59.8
30	min	29.0	30.5	31.9	32.6	33.1	33.5	34.0
60	min	17.0	17.8	18.6	19.0	19.4	19.6	19.8
120	min	11.0	11.5	11.9	12.0	12.1	12.2	12.3
180	min	7.70	7.85	8.10	8.21	8.30	8.37	8.46
240	min	6.15	6.22	6.36	6.40	6.45	6.51	6.58
300	min	5.10	5.18	5.30	5.38	5.42	5.46	5.51
600	min	2.91	2.97	3.06	3.07	3.08	3.09	3.10
1200	min	1.530	1.560	1.600	1.610	1.620	1.630	1.630

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)