



# FGC25005

## 12Volt 50Ah

### Specifications

Nominal Voltage(V) 12V

#### Nominal Capacity

20 hour rate	(2.5A	to	10.50V)	50Ah
10 hour rate	(4.75A	to	10.50V)	47.5Ah
5 hour rate	(8.5A	to	10.20V)	42.5Ah
1 C	(50A	to	9.60V)	28.33Ah
3 C	(150A	to	9.60V)	20Ah

Weight Approx. 14.5kg(31.9Lbs.)

Internal Resistance (at 1KHz) Approx. 5 mΩ

Maximum Discharge Current for 5 seconds: 600A

#### Charging Methods at 25 (77 )

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 15A

Standby use:

Float Charging Voltage 13.50 to 13.80V

Coefficient -3.0mv/ /cell

#### Operating Temperature Range

Charge -15 (5 ) to 40 (104 )

Discharge -15 (5 ) to 50 (122 )

Storage -15 (5 ) to 40 (104 )

#### Charge Retention (shelf life) at 20 (68 )

1 month 98%

3 month 94%

6 month 85%

Case Material ABS

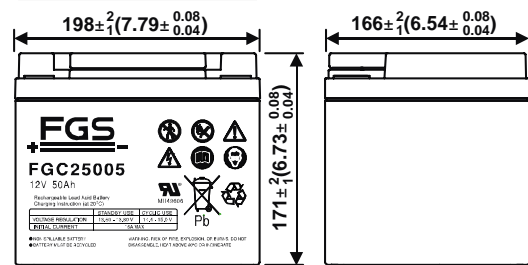
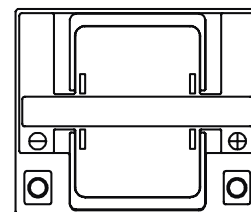
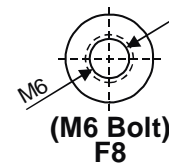
(UL94 HB flame retardant )

Terminal F8

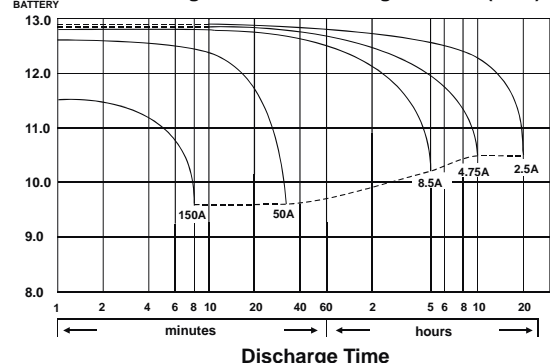
Description of torque value of hard ware for the terminals:  
 Recommended torque value M6: 5.39 N-m (55kg-cm)  
 Maximum allowable torque value M6: 8.82 N-m (90kg-cm)



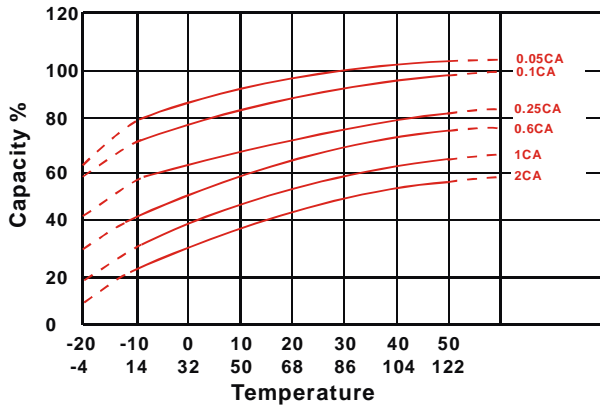
### Dimensions mm(inch)



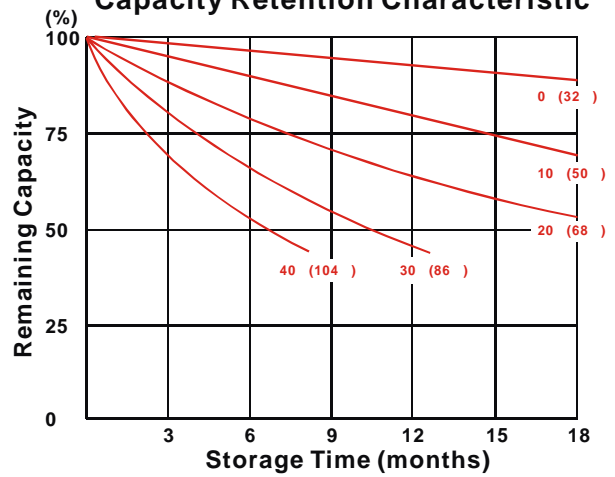
(V) Discharge Time VS. Discharge Current (25 )



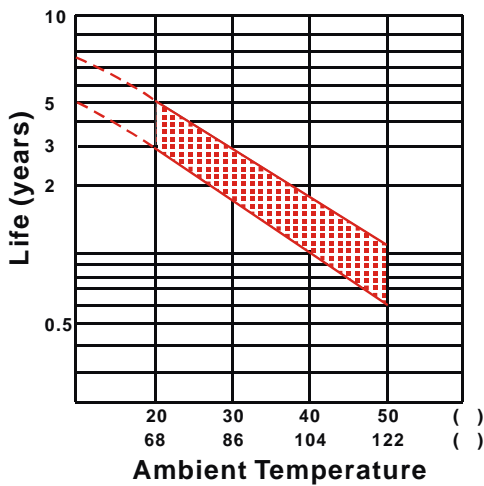
Effect of Temperature on Capacity 25 (77 °C)



Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life

