

**GEL Series Battery**

GE series batteries are designed with AGM separator and GEL deep cycle technology to give Extra-durable cyclic performance at extreme temperature.

GE series Batteries are designed for 15 years life time floating design life at 25°C Meet with IEC, BS,JIS and Eurobat standard .

**Application**

- \* Emergency Power System
- \* Communication equipment
- \* Telecommunication systems
- \* Uninterruptible power supplies
- \* Electric toy car and wheelchairs, etc.

- \* Power tools
- \* Alarm system
- \* Marine equipment
- \* Medical equipment
- \* Fire and Security System



**General Features**

- \* Heavy Duty Grid
- \* Mechanized assembly
- \* Non-spillable construction
- \* High Reliability and Stability
- \* Long Life and low self-discharge design

**Construction**

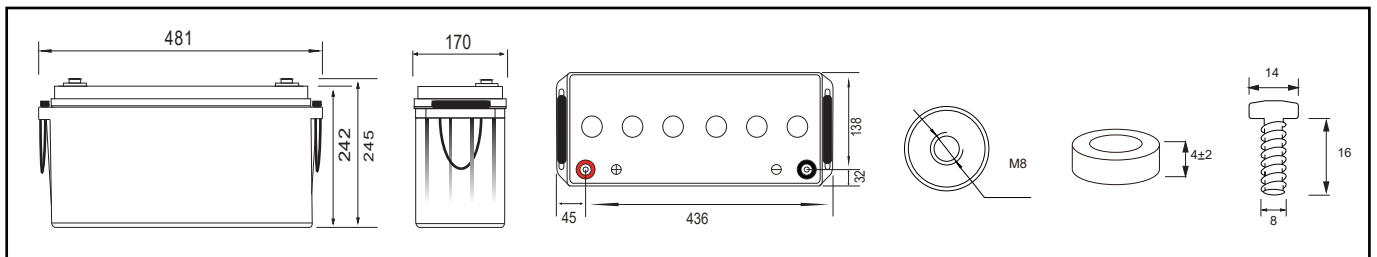
- \* Positive ..... Lead dioxide
  - \* Electrolyte..... Silicon dioxide
  - \* Separator ..... AGM
  - \* Container ..... ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
  - \* Negative ..... Lead
  - \* Safety Valve ..... EPDR
  - \* Terminal ..... Copper
- UL94-V2 can be available upon request

**Specification**

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		150Ah	
	Cells Per battery		6-GFM-150	
Dimension	Length	Width	Height	Total Height
	418mm (18.94 inches)	170mm (6.69 inches)	242mm (9.52 inches)	245mm (9.65 inches)
Approx Weight	40.6kg(89.51lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(10.5V)	10 hour rate(10.8V)	5 hour rate(10.5V)	1 hour rate(9.6V)
	159Ah	150Ah	131Ah	97.4Ah
Max.discharge current	1800A (5 Sec.)			
Full charged at 25°C(77°F): Approx 3.40mΩ				
Capacity affected by Temp.(20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	98%		94%	74%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.40-15.00V (Initial charging current less than45A)		13.50-13.80V	

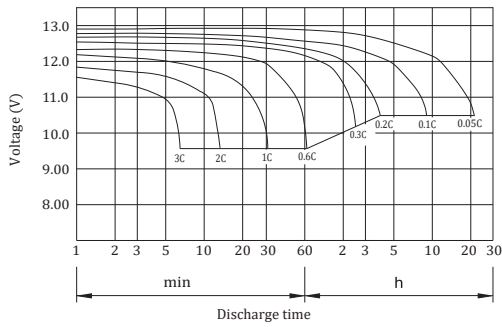
**Outer dimension (mm)**

**Terminal Type (mm)**

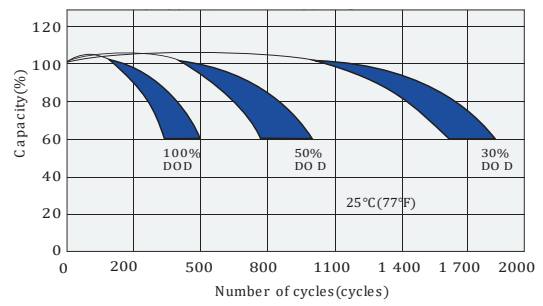


F.VVTIME		10MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	335.000	260.000	171.000	97.400	55.100	41.000	27.300	18.400	15.700	8.150
	W	595.000	470.000	315.000	182.800	105.100	79.500	53.000	36.000	30.500	16.110
1.67V/cell	A	318.000	245.000	166.000	95.200	54.200	40.400	26.900	18.100	15.500	8.060
	W	575.000	450.000	308.000	181.500	103.900	78.600	52.400	35.600	30.200	16.020
1.70V/cell	A	310.000	238.000	163.000	93.900	53.700	40.000	26.600	17.900	15.300	8.020
	W	565.000	443.000	305.000	179.700	103.300	77.800	52.100	35.300	30.000	15.940
1.75V/cell	A	289.000	227.000	156.000	91.800	52.800	39.500	26.200	17.700	15.200	7.950
	W	535.000	425.000	297.000	177.400	102.300	77.200	51.600	35.000	29.700	15.880
1.80V/cell	A	268.000	214.000	150.000	89.200	51.600	38.700	25.900	17.500	15.000	7.860
	W	500.000	404.000	287.000	172.800	100.200	76.100	51.100	34.600	29.400	15.780

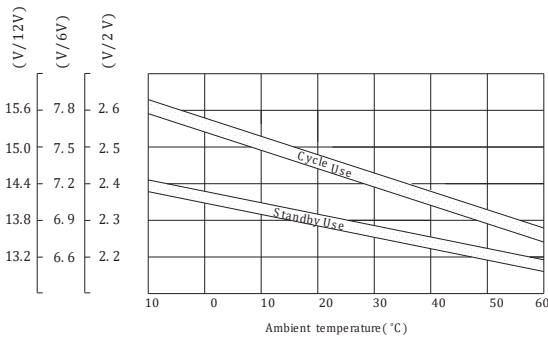
Discharge characteristic Curve



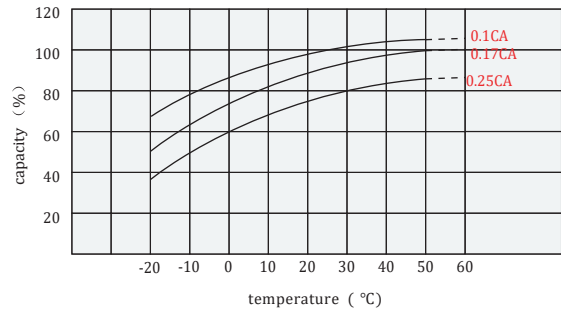
Cycle service life in relation to depth of discharge



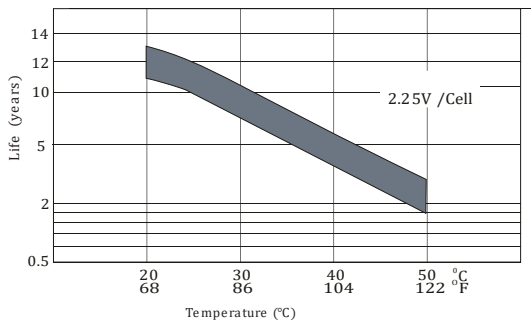
Relationship between charging voltage and temperature



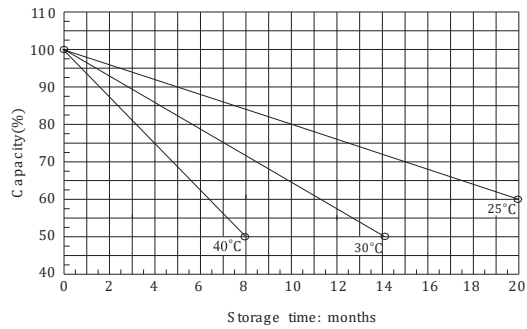
Relationship between temperature and capacity



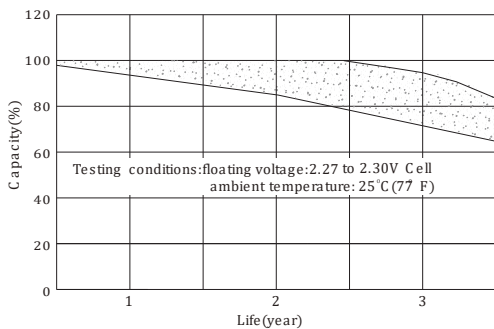
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

