

**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**

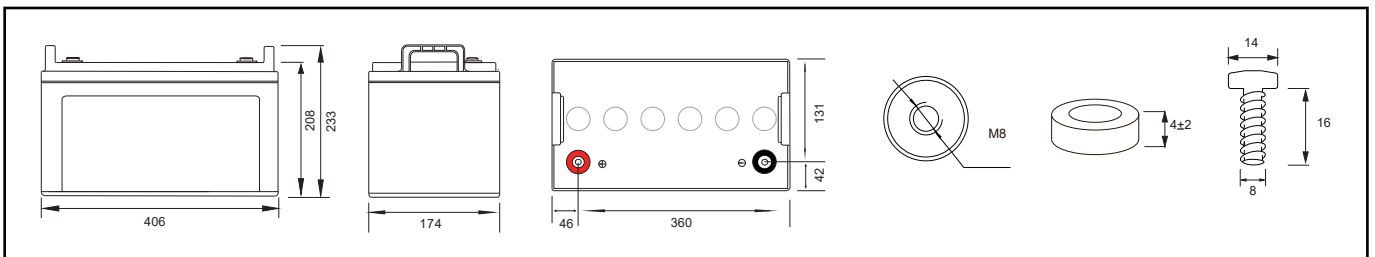
- \*Positive ..... Lead dioxide
  - \*Electrolyte..... Silicon dioxide
  - \*Separator ..... AGM
  - \*Container ..... ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
  - \*Negative ..... Lead
  - \*Safety Valve ..... EPDR
  - \* Terminal ..... Copper
- UL94-V2 can be available upon request

**Specification**

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		120Ah	
	Cells Per battery		6-GFM-120	
Dimension	Length	Width	Height	Total Height
	406mm (15.98 inches)	173mm (6.81 inches)	208mm (8.19 inches)	233mm (9.17 inches)
Approx Weight	33.10kg(72.97lbs) ± 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)
	128.8Ah	120Ah	108.85Ah	77.50Ah
Max.discharge current	1440A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 3.35mΩ			
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 than36A)		13.50-13.80V	

**Outer dimension (mm)**

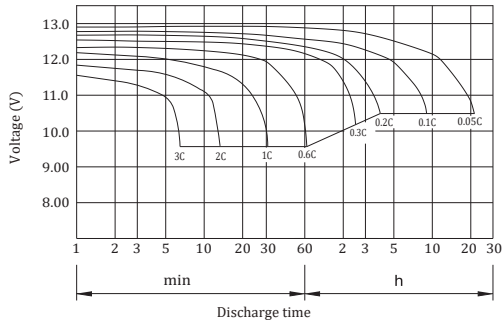
**Terminal Type (mm)**



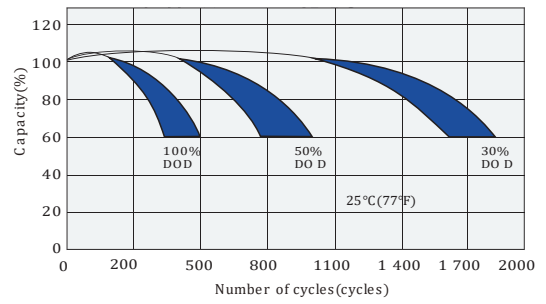
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V\TIME		5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	410.000	220.000	135.000	77.500	46.200	32.500	23.000	14.500	12.380	6.580
	W	724.000	398.000	250.000	146.800	88.660	62.510	445.030	28.050	24.480	13.090
1.67V/cell	A	373.000	208.000	131.000	76.300	45.500	32.090	22.650	14.380	12.310	6.540
	W	686.000	385.000	246.000	145.300	87.400	62.030	44.420	28.340	24.400	13.050
1.70V/cell	A	356.000	203.000	129.000	75.600	45.080	31.700	22.370	14.310	12.270	6.520
	W	656.000	380.000	245.000	144.400	86.920	61.470	43.960	28.290	24.350	13.030
1.75V/cell	A	326.000	194.000	125.000	74.100	44.100	30.850	21.770	14.150	12.140	6.440
	W	611.000	367.000	239.000	142.900	85.820	60.340	43.050	28.100	24.250	12.910
1.80V/cell	A	295.000	184.000	120.000	72.500	43.080	29.950	21.150	13.980	12.000	6.350
	W	559.000	351.000	231.000	141.000	84.350	58.940	42.040	27.900	24.060	12.800

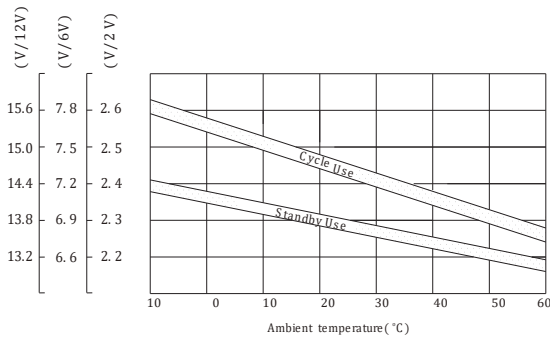
Discharge characteristic Curve



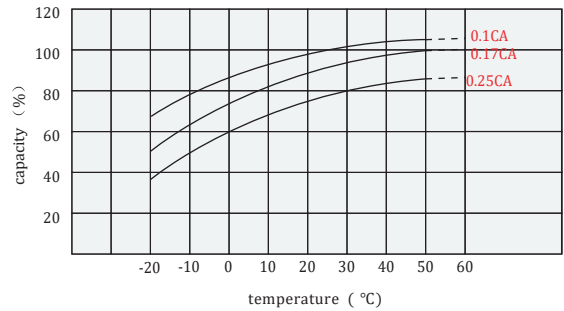
Cycle service life in relation to depth of discharge



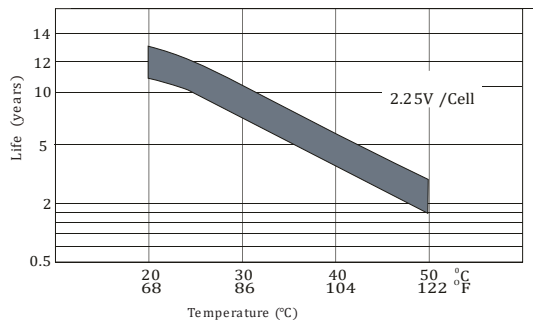
Relationship between charging voltage and temperature



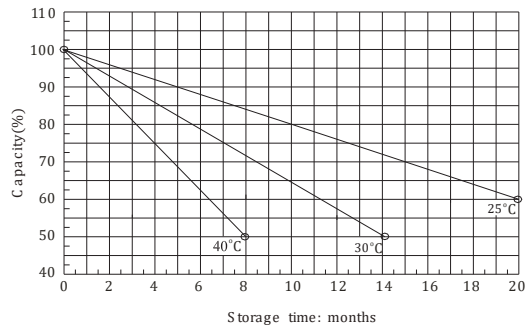
Relationship between temperature and capacity



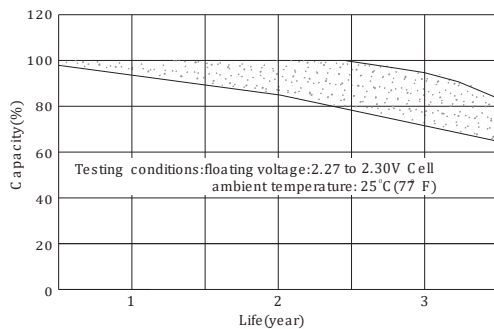
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

