

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

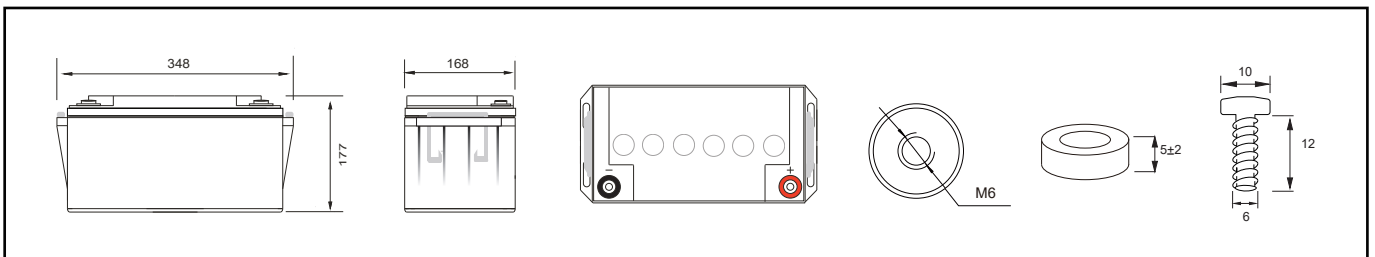
- *Positive Lead dioxide
 - *Electrolyte..... Silicon dioxide
 - *Separator AGM
 - *Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
 - *Negative Lead
 - *Safety Valve EPDR
 - * Terminal Copper
- UL94-V2 can be available upon request

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		65Ah	
	Cells Per battery		6-FM-65	
Dimension	Length	Width	Height	Total Height
	348mm (13.70 inches)	168mm (6.61 inches)	177mm (6.96 inches)	177mm (6.96 inches)
Approx Weight	18.7kg(41.23lbs) ± 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)
	71.4Ah	65Ah	55.75Ah	40Ah
Max.discharge current	780A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 6.7mΩ			
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 than19.5A)		13.50-13.80V	

Outer dimension (mm)

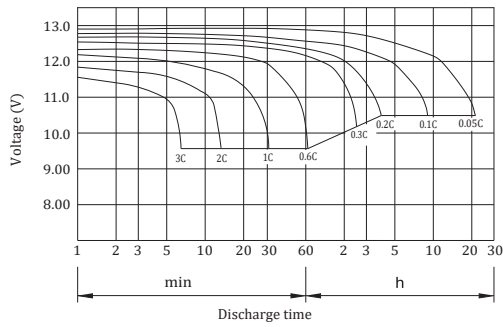
Terminal Type (mm)



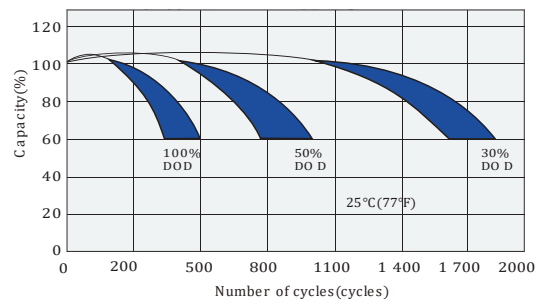
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V\TIME		5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	202.000	108.000	69.000	40.000	24.200	17.700	11.700	8.210	6.750	3.680
	W	353.000	196.000	126.000	72.900	45.500	33.240	22.620	16.100	13.320	7.250
1.67V/cell	A	188.000	104.000	66.400	38.500	23.200	16.820	11.380	8.080	6.680	3.640
	W	334.000	190.000	124.000	72.700	44.300	28.460	22.440	15.990	13.240	7.220
1.70V/cell	A	179.000	102.000	65.600	38.200	23.050	16.730	11.320	8.040	6.650	3.610
	W	324.000	188.000	123.000	72.500	44.200	32.880	22.350	15.920	13.190	7.190
1.75V/cell	A	165.000	98.000	63.600	37.500	22.620	16.470	11.150	7.930	6.570	3.570
	W	300.000	182.000	121.000	71.900	43.700	32.490	22.060	15.730	13.060	7.120
1.80V/cell	A	150.000	92.400	61.300	36.600	22.120	16.170	10.950	7.800	6.500	3.530
	W	269.000	174.000	118.000	71.000	43.200	32.010	21.720	15.510	12.890	7.030

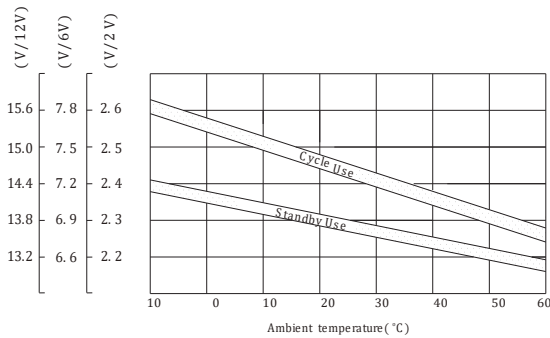
Discharge characteristic Curve



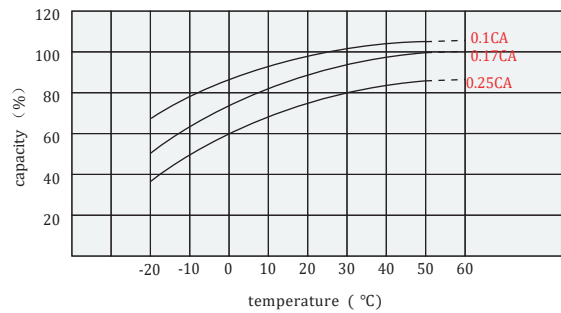
Cycle service life in relation to depth of discharge



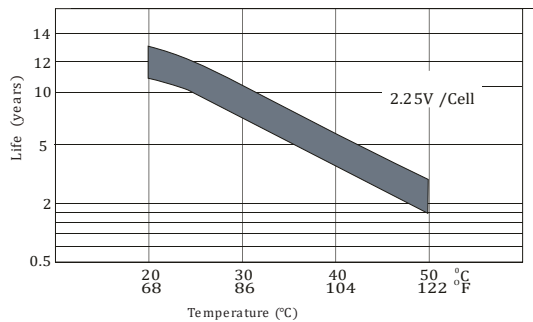
Relationship between charging voltage and temperature



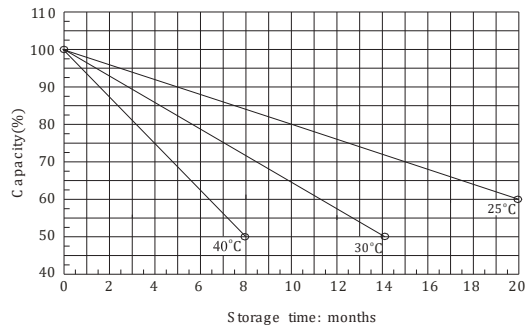
Relationship between temperature and capacity



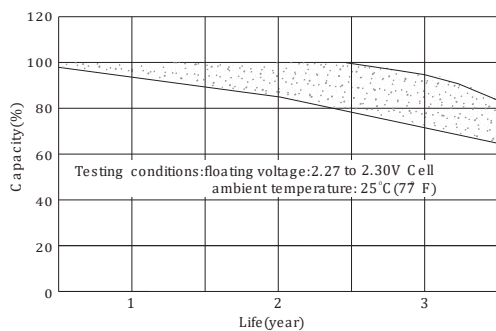
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

