

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

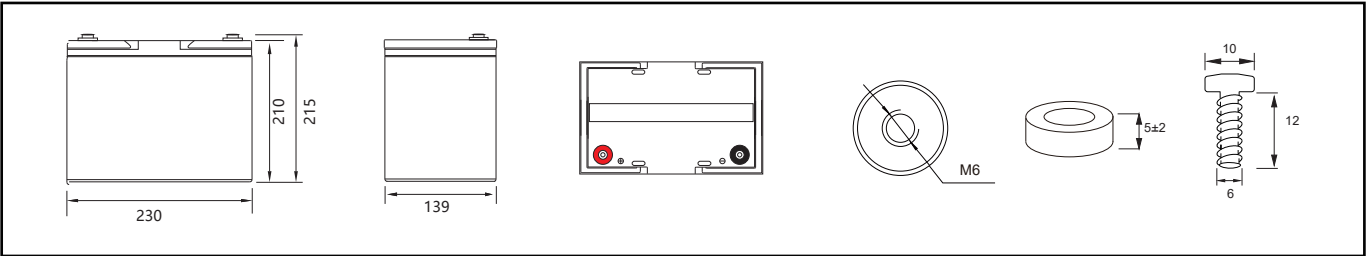
- *Positive Lead dioxide
 - *Electrolyte..... Silicon dioxide
 - *Separator AGM
 - *Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
 - *Negative Lead
 - *Safety Valve EPDR
 - * Terminal Copper
- UL94-V2 can be available upon request

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		55Ah	
	Cells Per battery		6-GFM-55	
Dimension	Length	Width	Height	Total Height
	230mm (9.59inches)	139mm (5.47inches)	210mm (8.26inches)	215mm (8.46inches)
Approx Weight	15.30kg (33.73lbs) ± 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)
	58.8Ah	55Ah	47.5Ah	34.1Ah
Max.discharge current	660A (5 Sec.)			
	Full charged at 25°C(77°F): Approx 5.23mΩ			
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 than16.5A)		13.50-13.80V	

Outer dimension (mm)

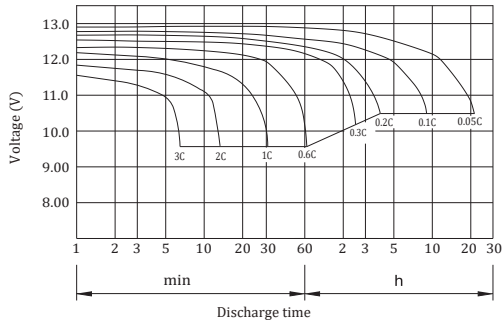
Terminal Type (mm)



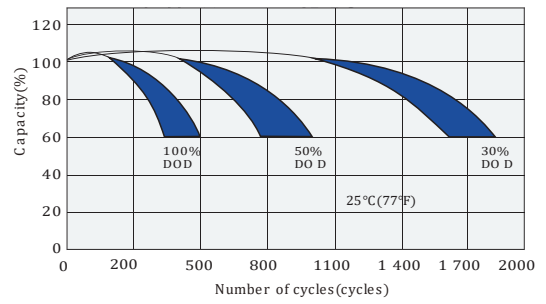
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V	TIME	5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	187.000	98.000	57.000	34.100	20.700	14.700	9.700	6.800	5.640	3.000
	W	338.000	184.000	108.500	65.400	39.810	28.430	18.890	13.330	11.080	5.930
1.67V/cell	A	175.000	92.000	56.000	33.700	20.450	14.620	9.640	6.770	5.620	2.990
	W	319.000	172.000	107.100	64.900	39.460	28.410	18.850	13.310	11.070	5.920
1.70V/cell	A	167.000	89.000	55.500	33.400	20.380	14.570	9.590	6.740	5.610	2.970
	W	306.000	168.000	106.700	64.500	39.500	28.390	18.830	13.290	11.060	5.900
1.75V/cell	A	152.000	84.000	54.300	32.800	20.080	14.410	9.500	6.670	5.550	2.940
	W	281.000	157.000	105.000	63.700	39.030	28.220	18.740	13.200	11.020	5.860
1.80V/cell	A	137.000	77.000	53.200	32.200	19.800	14.260	9.400	6.590	5.500	2.900
	W	254.000	146.000	103.600	62.900	38.760	28.070	18.600	13.040	10.950	5.820

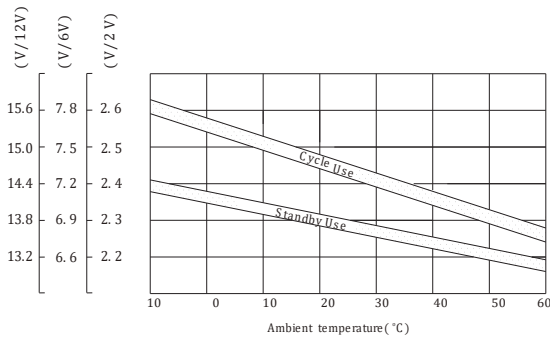
Discharge characteristic Curve



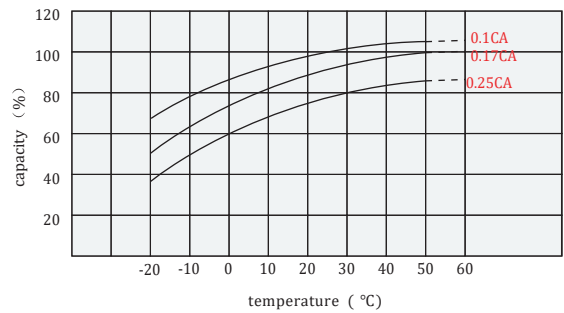
Cycle service life in relation to depth of discharge



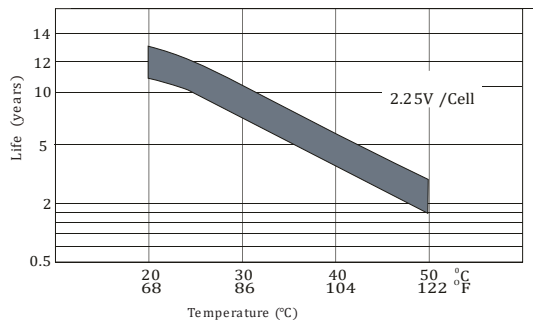
Relationship between charging voltage and temperature



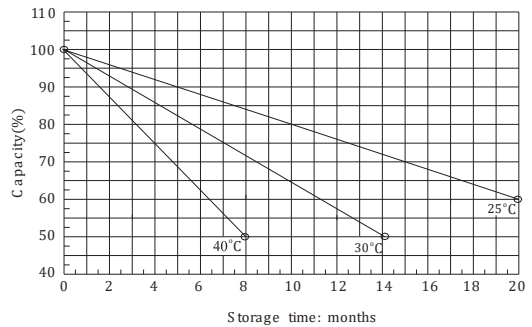
Relationship between temperature and capacity



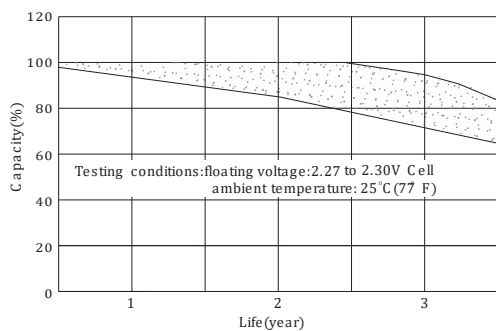
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

