

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

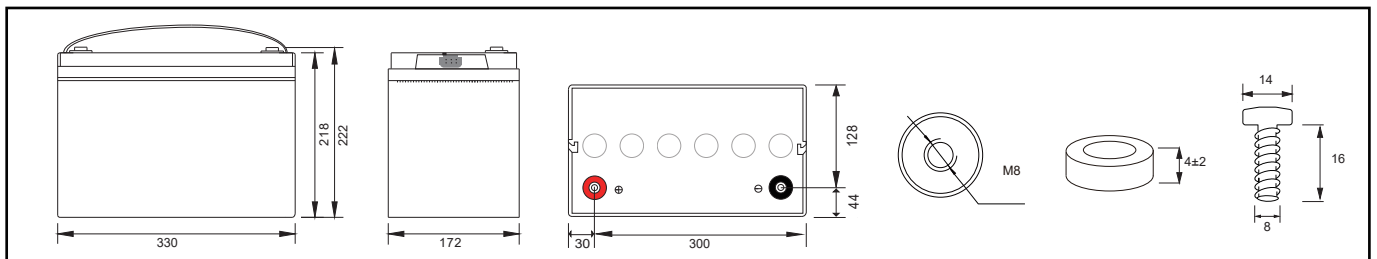
- * Positive Lead dioxide
 - * Electrolyte..... Silicon dioxide
 - * Separator AGM
 - * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
 - * Negative Lead
 - * Safety Valve EPDR
 - * Terminal Copper
- UL94-V2 can be available upon request

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10Hour rate)		100Ah	
	Cells Per battery		6-GFM-100	
Dimension	Length	Width	Height	Total Height
	330mm (12.99 inches)	172mm (6.77 inches)	218mm (8.58 inches)	222mm (8.74 inches)
Approx Weight	28kg(61.72lbs) ± 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)
	108.6Ah	100Ah	87.75Ah	61Ah
Max.discharge current	1200A (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 than30A)		13.50-13.80V	

Outer dimension (mm)

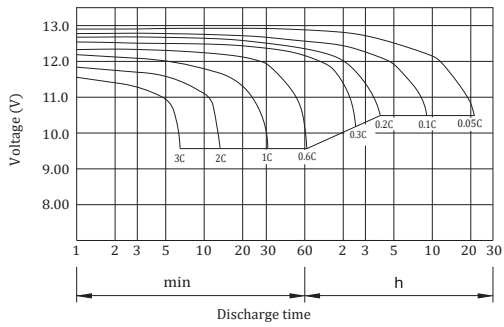
Terminal Type (mm)



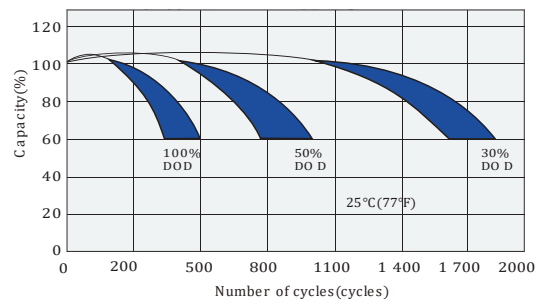
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.VVTIME		5MIN	15MIN	30MIN	60MIN	2 HR	3HR	5HR	8HR	10HR	20HR
1.60V/cell	A	360.000	193.000	105.000	61.000	37.400	26.400	18.200	12.250	10.400	5.560
	W	649.000	357.000	197.000	115.800	71.510	50.850	35.440	24.020	20.690	11.020
1.67V/cell	A	332.000	182.000	102.200	59.900	36.900	26.000	17.950	12.110	10.330	5.530
	W	602.000	339.000	193.000	113.800	71.030	50.350	35.170	23.820	20.530	10.960
1.70V/cell	A	319.000	177.500	100.800	59.400	36.600	25.800	17.820	12.030	10.290	5.500
	W	581.000	333.000	191.000	112.900	70.960	50.100	35.070	23.670	20.430	10.940
1.75V/cell	A	292.000	168.000	98.000	58.300	35.800	25.400	17.550	11.860	10.150	5.430
	W	543.000	315.000	187.000	111.900	69.610	49.460	34.610	23.400	20.180	10.870
1.80V/cell	A	266.000	158.000	95.300	57.100	35.200	25.000	17.270	11.680	10.000	5.350
	W	500.000	299.000	184.000	110.400	68.640	48.970	34.130	23.140	19.980	10.810

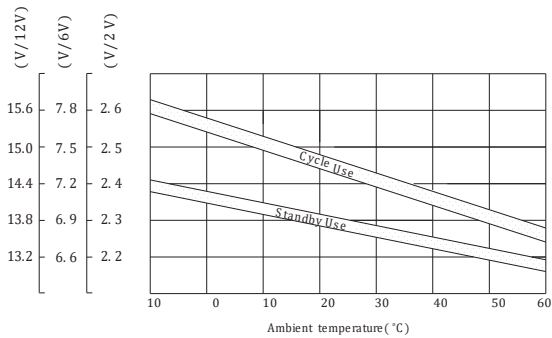
Discharge characteristic Curve



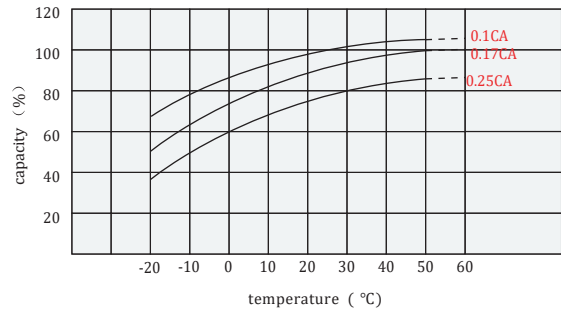
Cycle service life in relation to depth of discharge



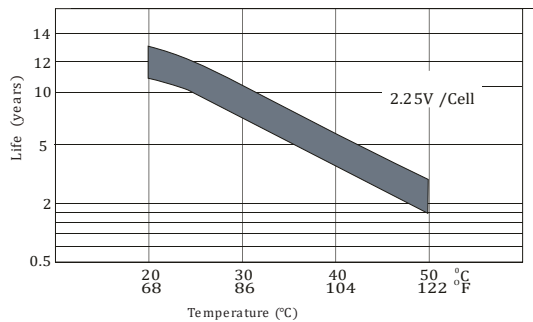
Relationship between charging voltage and temperature



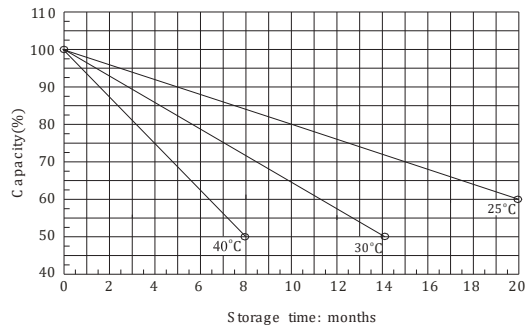
Relationship between temperature and capacity



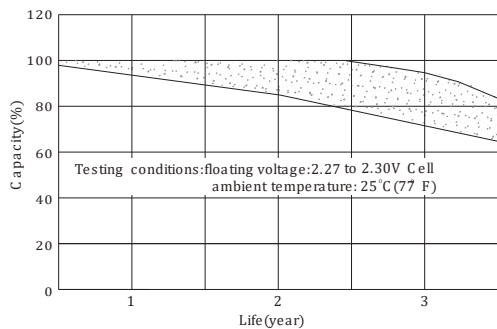
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

