

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 12 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
- * Golf cars and buggies
- * Marine equipment
- * Medical equipment
- * Solar and wind power system



General Features

- * Safety Sealing
- * Non-spillable construction
- * High power density
- * Excellent recovery from Deep discharge
- * Thick plates and high active materials
- * Longer Life and low self-discharge design

Construction

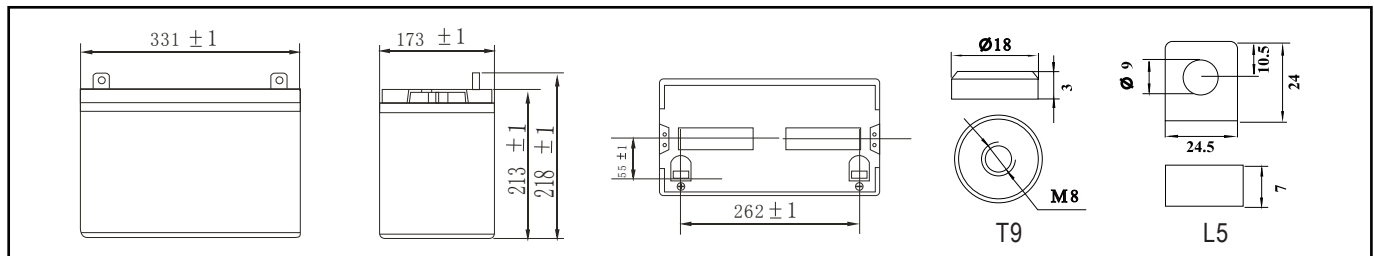
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		100Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	331mm (13.03 inches)	173mm (6.81 inches)	213mm (8.39 inches)	218mm (8.58 inches)
Approx Weight	30.8kg (67.90lbs) ± 3%			
Capacity @ 25°C (77°F)	10 hour rate(10A,10.8V)	5 hour rate(16A,10.5V)	3 hour rate(25A,10.2V)	1 hour rate(60A,9.6V)
	100Ah	80Ah	75Ah	60Ah
Max.discharge current	1000A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 4.5mΩ			
Capacity affected by Temp.(10 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
	91%		82%	64%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.1-14.4V (Initial charging current less than 30A)		13.50-13.80V	

Outer dimension (mm)

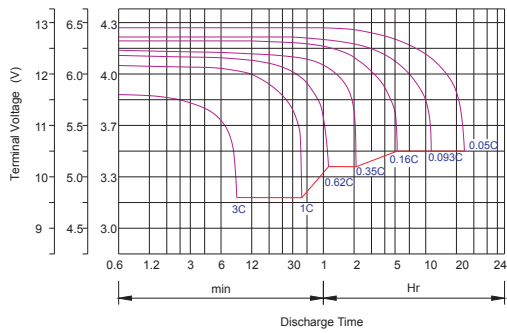
Terminal Type (mm)



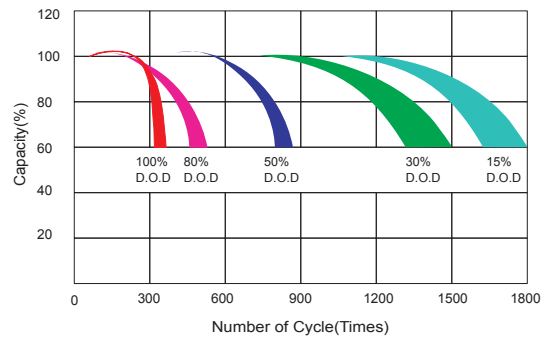
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V.TIME		5min	10min	15min	30min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
9.60V	A	320.00	211.00	170.00	114.00	60.00	35.00	25.70	20.00	16.50	11.70	10.50	5.67
	W	3305.00	2253.00	1824.00	1226.00	648.00	384.00	286.00	225.00	188.00	134.00	121.00	65.90
10.20V	A	310.00	190.00	160.00	109.00	56.40	33.40	25.00	19.50	16.20	11.40	10.30	5.50
	W	3313.00	2126.00	1793.00	1224.00	638.00	385.00	290.00	227.00	189.00	133.00	121.00	64.50
10.50V	A	300.00	170.00	140.00	102.00	54.60	32.60	24.40	19.20	16.00	11.30	10.10	5.50
	W	3277.00	1937.00	1599.00	1174.00	632.00	378.00	284.00	225.00	188.00	133.00	120.00	65.00
10.80V	A	289.00	161.00	130.00	94.00	52.80	31.80	23.80	18.90	15.60	11.00	10.00	5.40
	W	3245.00	1851.00	1500.00	1089.00	615.00	372.00	281.00	223.00	184.00	130.00	119.00	64.30
11.10V	A	280.00	150.00	120.00	84.00	51.00	31.00	23.00	18.40	15.20	10.70	9.50	5.10
	W	3170.00	1742.00	1399.00	983.00	600.00	366.00	273.00	219.00	181.00	128.00	114.70	61.80

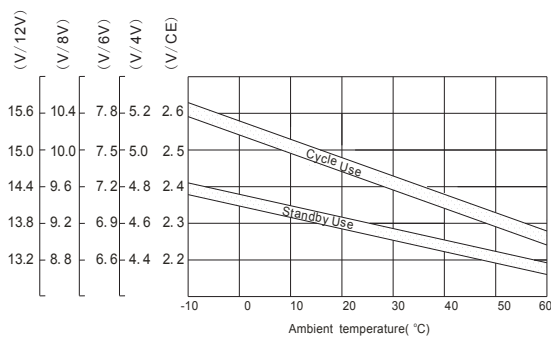
Discharge characteristic Curve



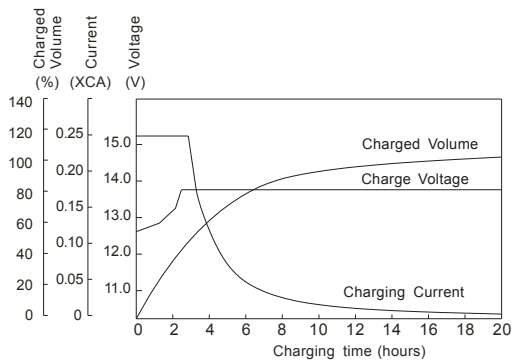
Cycle service life in relation to depth of discharge



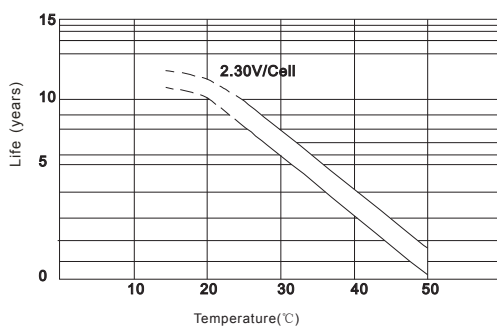
Relationship between charging voltage and temperature



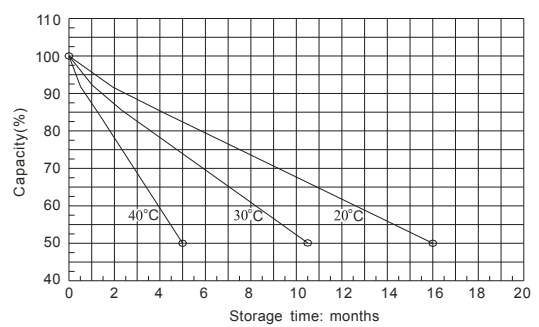
Constant voltage charging characteristic (0.25CA, at 25°C)



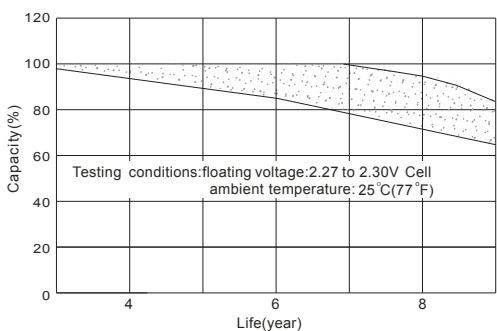
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

