

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
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System



General Features

- * Safety Sealing
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Safety and Quality certification
- * Long Life and low self-discharge design

Construction

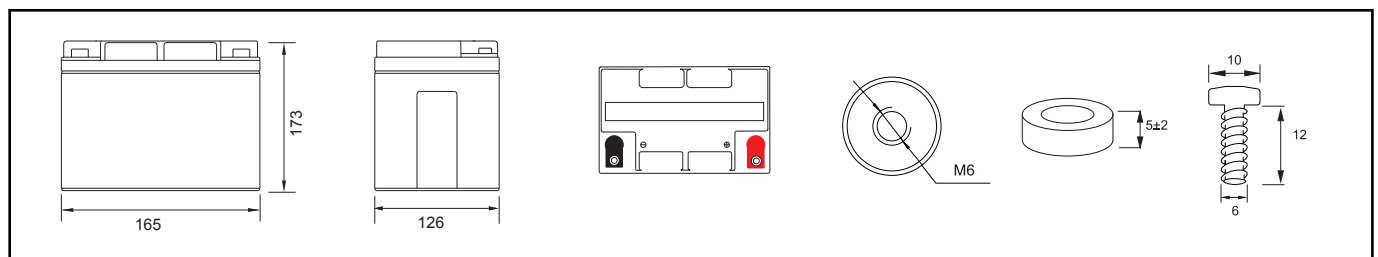
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid thixotropic Gel
- * Separator Macromolecule polymer
- * Container ABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		28Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	165mm (6.49 inches)	126mm (4.96 inches)	173mm (6.81 inches)	173mm (6.81 inches)
Approx Weight	8kg (17.63lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(1.4A,10.5V)	10 hour rate(2.51A,10.8V)	5 hour rate(4.8A,10.5V)	1 hour rate(16.8A,9.6V)
	28.0Ah	25.1Ah	24.0Ah	16.8Ah
Max.discharge current	420A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 9mΩ			
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
	91%		82%	64%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.4-15.0V (Initial charging current less than 8.4A)		13.50-13.80V	

Outer dimension (mm)

Terminal Type (mm)

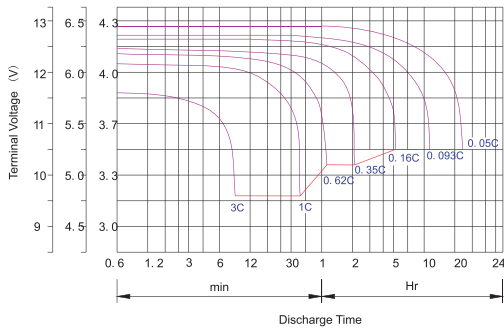


Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

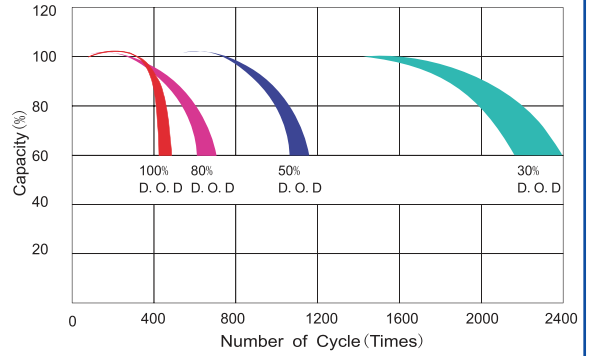
F.V.TIME		5min	10min	15min	30min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
9.60V	A	100.80	66.08	49.00	32.20	16.80	9.80	7.21	5.79	4.91	3.24	2.65	1.45
	W	1188.80	746.70	564.70	341.18	193.70	113.40	83.40	67.00	56.80	37.50	30.70	16.80
10.20V	A	92.40	63.23	45.03	30.57	15.77	9.40	7.00	5.60	4.82	3.19	2.60	1.41
	W	1118.80	707.00	530.80	339.50	182.00	108.90	81.10	64.90	55.80	36.90	30.10	16.30
10.50V	A	84.12	59.08	42.00	29.63	15.26	9.22	6.88	5.32	4.80	3.15	2.58	1.40
	W	1080.30	686.00	507.50	336.00	176.60	106.80	79.70	61.60	55.40	36.50	29.90	16.20
10.80V	A	80.84	56.47	39.20	28.82	14.75	8.98	6.77	5.23	4.55	3.07	2.51	1.37
	W	947.30	665.00	488.80	334.80	171.50	104.50	78.80	60.80	53.00	35.00	29.20	15.90
11.10V	A	74.76	53.20	36.04	28.00	14.23	8.75	6.42	5.13	4.35	2.99	2.45	1.33
	W	915.80	642.80	465.50	332.50	169.20	103.80	76.40	60.70	51.80	33.80	28.60	15.80

Note: The above datas are average values. (Edition 2020-05)

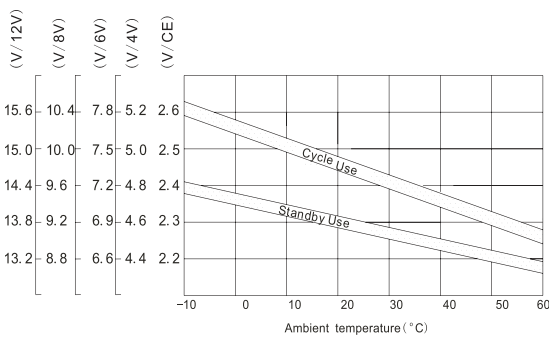
Discharge characteristic Curve



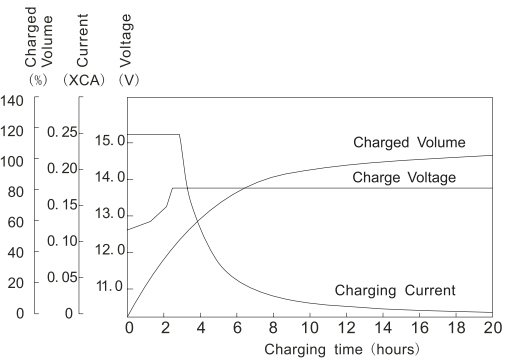
Cycle service life in relation to depth of discharge



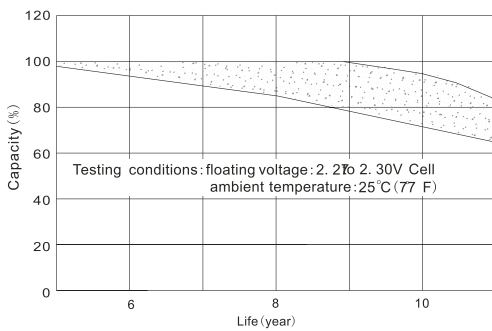
Relationship between charging voltage and temperature



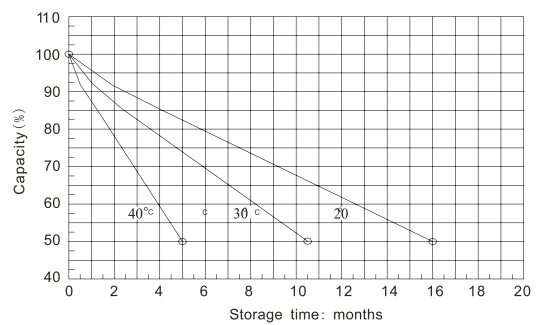
Constant voltage charging characteristic (0.25CA, at 25°C)



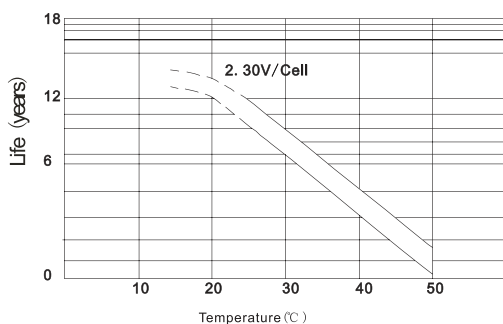
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

