

GEL Series Battery

GE series batteries are designed with AGM separator and GEL deep cycle technology to give Extra-durable cyclic performance at extreme temperatures.

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
- * Longer Life and low self-discharge design

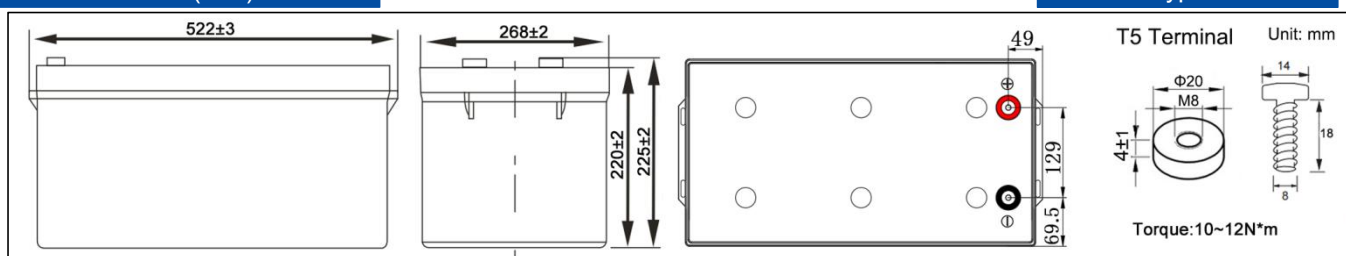
Construction

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

Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		250Ah	
Dimension	Length	Width	Height	Total Height
	522mm (20.55 inches)	268mm (10.55 inches)	220mm (8.66 inches)	225mm (8.86 inches)
Approx Weight	65.6kg (144.62lbs) ± 3%			
Internal Resistance	oFull charged at 25°C(77°F): Approx 2.50mΩ			
Maximum Charge Current	75A			
Max.discharge current	2500A (5Sec.)			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25°C(77°F)	-15°C ~ 50°C (5°F~122°F)	-15°C ~ 40°C (5°F~104°F)	-15°C ~ 40°C (5°F~104°F)
Capacity @ 25°C (77°F)	10 hour rate(25.0A,10.8V)	5 hour rate(45.0A,10.5V)	3 hour rate(67.1A,10.2V)	1 hour rate(161.0A,9.6V)
	250.0Ah	225.0Ah	201.3Ah	161.0Ah
Capacity affected by Temp.(10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Charge method	Float Charging Voltage		Equalization Charging Voltage	
	13.5 ~ 13.8 VDC/Unit at 25°C (77°F)		14.4~15.0 VDC/Unit at 25°C (77°F)	

Outer dimension (mm)

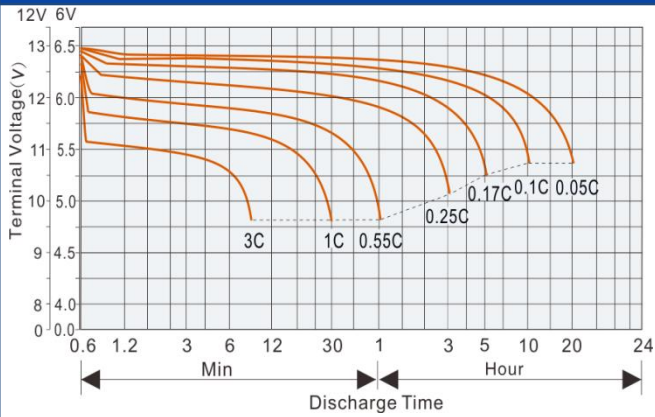


Terminal Type

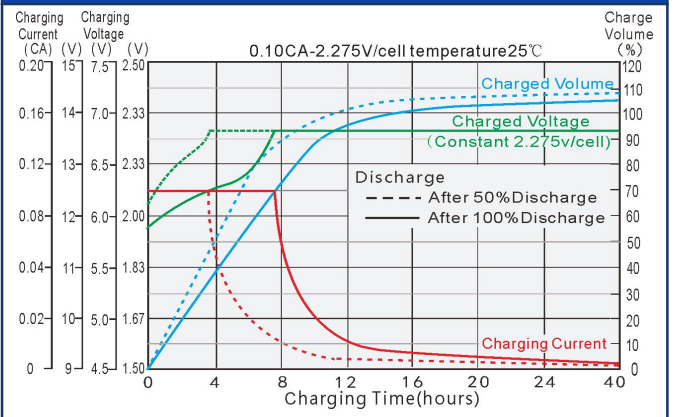
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	407	351	304	267	219	140	84.6	64.5	43.2	29.6	24.6	12.8
	W	763	662	575	507	422	273	164.6	127.6	85.7	58.8	49.0	25.9
1.80V/cell	A	451	389	335	290	234	145	87.3	65.5	44.1	30.2	25.0	13.0
	W	834	727	630	542	446	282	169.0	129.2	87.0	59.7	49.6	26.2
1.75V/cell	A	493	423	363	311	247	151	89.8	66.4	45.0	30.7	25.4	13.3
	W	905	790	676	579	468	290	172.8	130.5	88.0	60.4	50.2	26.6
1.70V/cell	A	534	452	389	331	258	155	91.7	67.1	45.5	31.0	25.6	13.3
	W	966	839	712	609	484	295	176.1	131.9	88.9	60.9	50.7	26.9
1.67V/cell	A	564	473	407	343	264	157	93.3	67.8	45.9	31.2	25.8	13.4
	W	1002	869	737	631	494	298	178.2	132.8	89.5	61.2	51.1	27.0
1.60V/cell	A	610	509	431	366	277	161	95.9	69.3	46.5	31.6	26.0	13.5
	W	1068	905	773	666	516	303	182.6	134.8	90.6	61.8	51.5	27.2

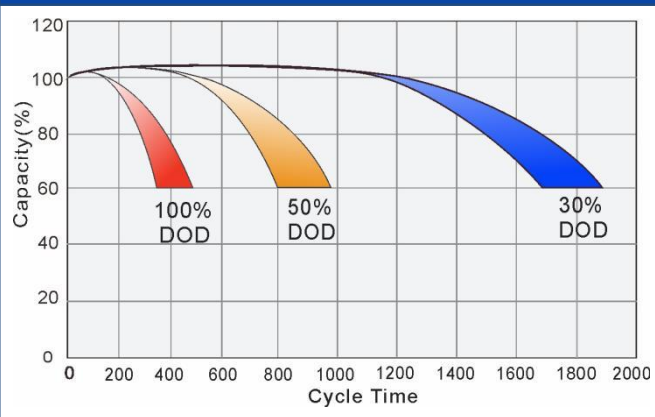
Discharge characteristic curve (25°C/77°F)



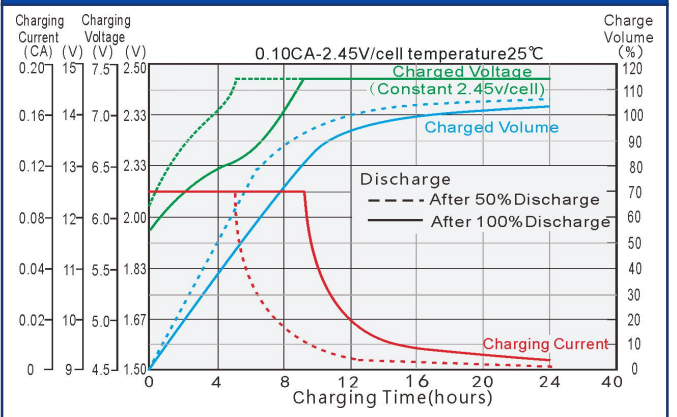
Charging characteristic curve of floating charge (25°C/77°F)



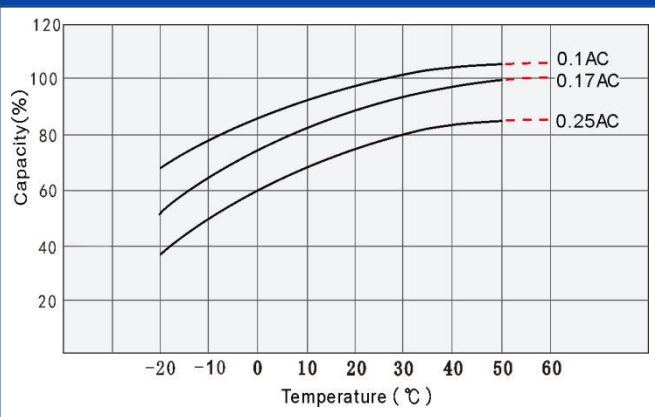
Cycle service life in relation to depth of discharge



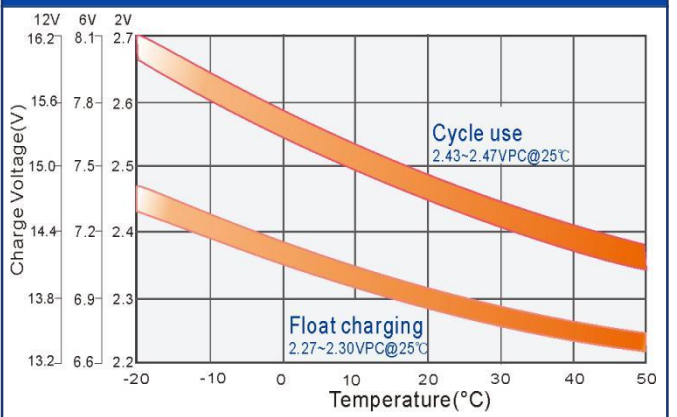
Cyclic charging characteristic curve (25°C/77°F)



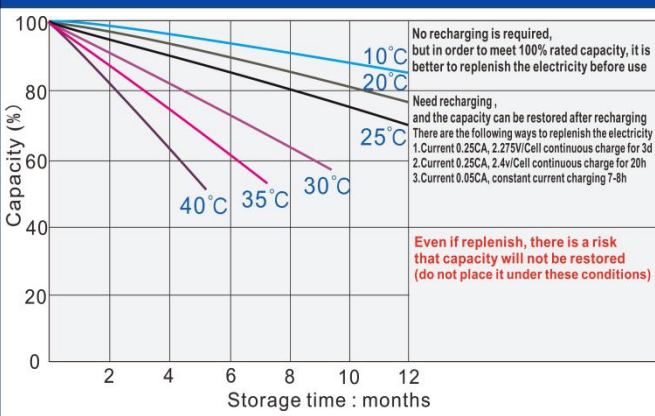
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

