

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 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

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

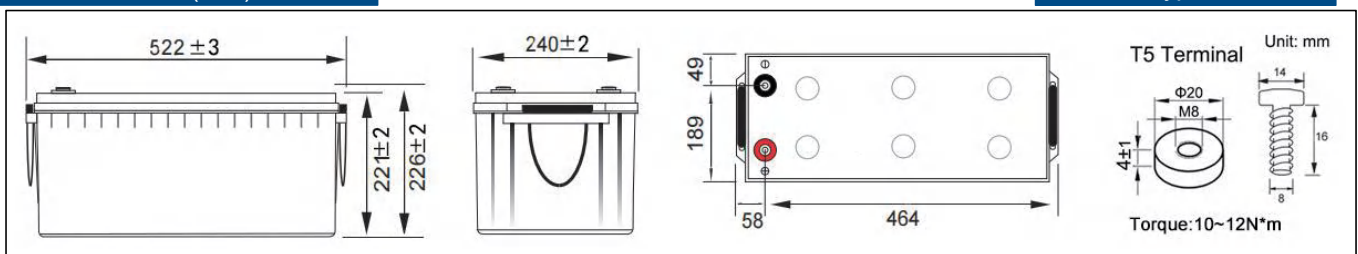
Construction

- * 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)		200Ah	
Dimension	Length	Width	Height	Total Height
	522mm (20.55 inches)	240mm (9.45 inches)	221mm (8.70 inches)	226mm (8.90 inches)
Approx Weight	57.5kg (126.76lbs) ± 3%			
Internal Resistance	oFull charged at 25°C(77°F): Approx 2.05mΩ			
Maximum Charge Current	60A			
Max.discharge current	2000A (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(20.0A,10.8V)	5 hour rate(35.4A,10.5V)	3 hour rate(54.8A,10.2V)	1 hour rate(130.0A,9.6V)
	200Ah	177.0Ah	164.4Ah	130.0Ah
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)	

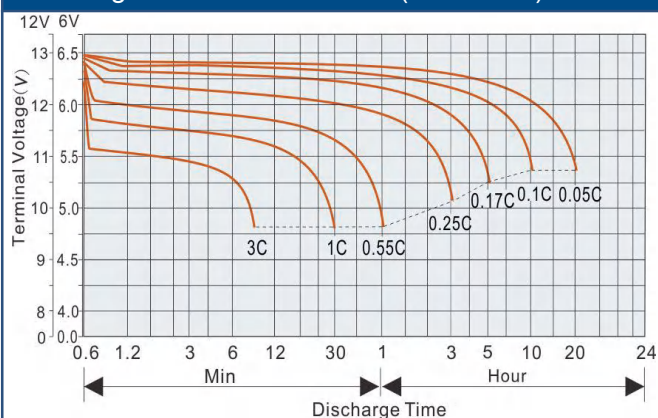
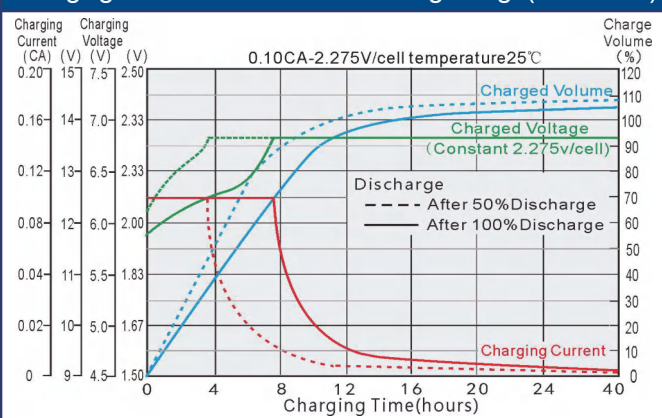
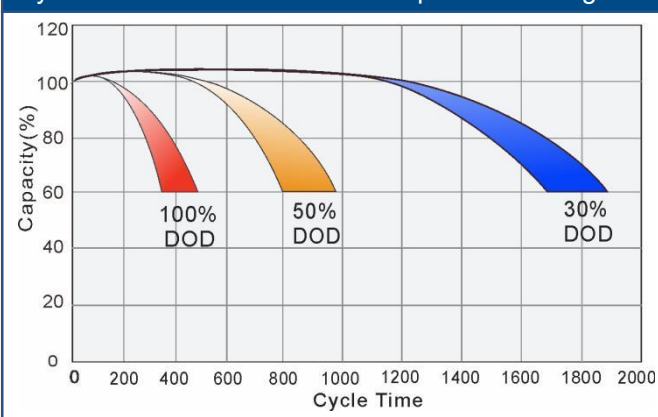
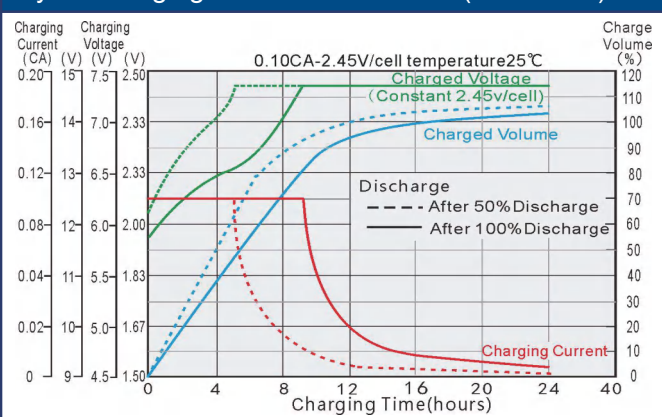
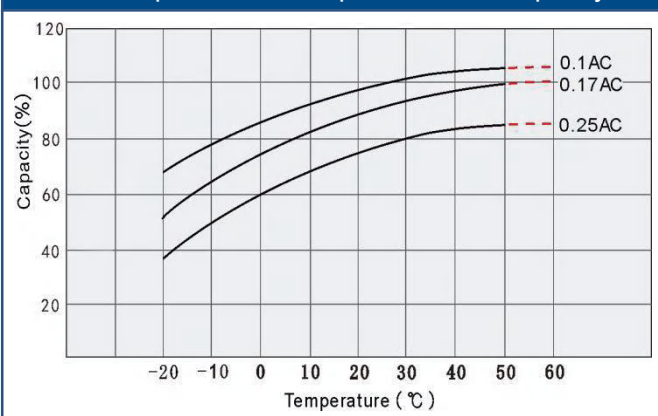
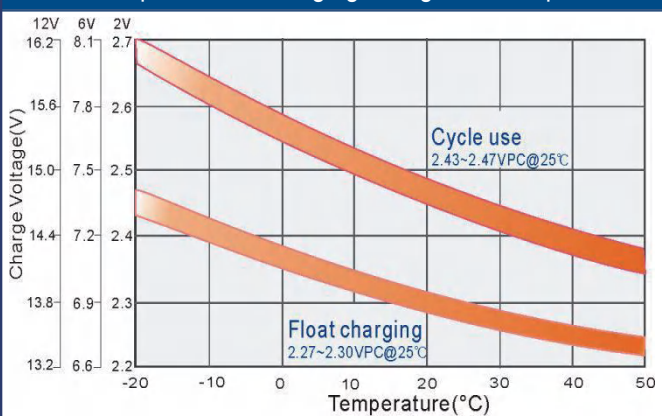
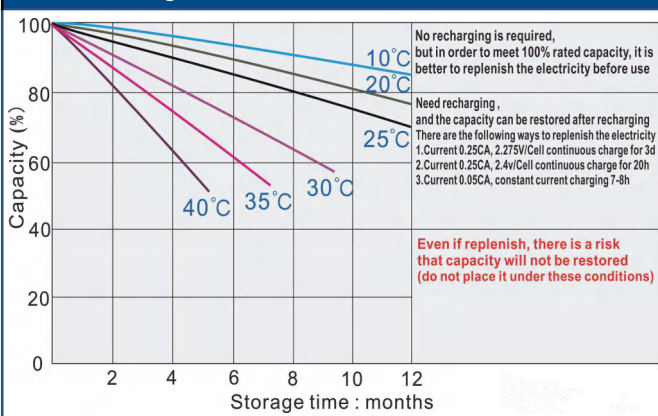
Outer dimension (mm)



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	362	285	228	200	166	115	70.4	51.8	33.9	24.2	19.79	10.45
	W	687	544	437	386	320	224	138	102.0	67.4	48.3	39.65	21.08
1.80V/cell	A	410	321	257	218	176	120	72.0	52.9	34.7	24.5	20.00	10.65
	W	774	608	488	419	338	232	140	103.7	68.7	48.6	239.8	21.37
1.75V/cell	A	452	355	285	235	185	124	73.5	53.9	35.4	24.7	20.16	10.77
	W	844	667	538	448	353	238	142	105.0	69.7	48.8	240.7	21.50
1.70V/cell	A	490	388	310	250	193	127	74.9	54.8	36.0	24.9	20.31	10.87
	W	899	720	577	471	364	242	144	105.8	70.5	49.0	40.00	21.63
1.67V/cell	A	509	403	323	258	197	128	75.5	55.1	36.2	25.0	20.36	10.89
	W	933	743	596	483	369	243	146	106.1	70.7	49.1	40.15	21.65
1.60V/cell	A	545	437	347	275	204	130	76.6	55.6	36.5	25.2	20.42	10.93
	W	959	782	625	503	376	245	147	106.5	71.2	49.2	40.22	21.70

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
