

### ● 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

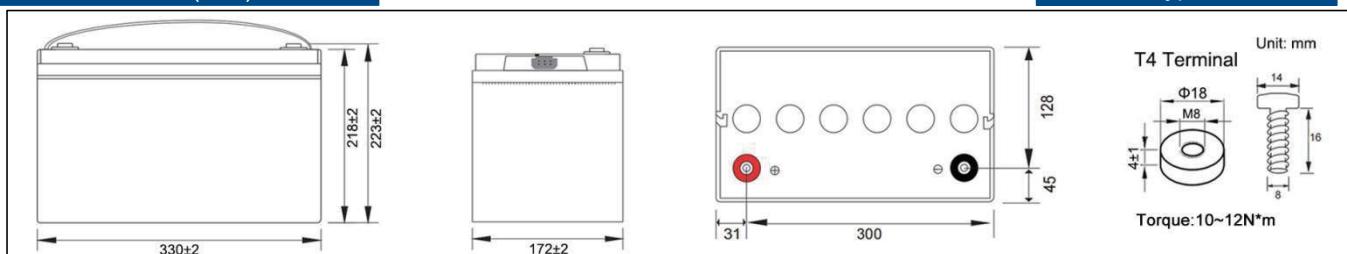
* Positive	Lead dioxide	* Negative	Lead
* Electrolyte	Sulfuric acid thixotropic Gel	* Safety Valve	EPDR
* Separator	Macromolecule polymer	* Terminal	Copper
* Container		ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)	

### ● Specification

Battery Model		Nominal Voltage		12V (6 cells per unit)	
		Rated capacity (10 Hour rate)		100Ah	
Dimension		Length	Width	Height	Total Height
		330mm (12.99 inches)	172mm (6.77 inches)	218mm (8.58 inches)	223mm (8.78 inches)
Approx Weight		28.2kg (62.17lbs) ± 3%			
Internal Resistance		oFull charged at 25°C(77°F): Approx 3.40mΩ			
Maximum Charge Current		30A			
Max. discharge current		1000A (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(10.0A,10.8V)	5 hour rate(17.2A,10.5V)	3 hour rate(26.5A,10.2V)	1 hour rate(66.0A,9.6V)
Capacity affected by Temp.(10HR)		100.0Ah	86.0Ah	79.5Ah	66.0Ah
		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)

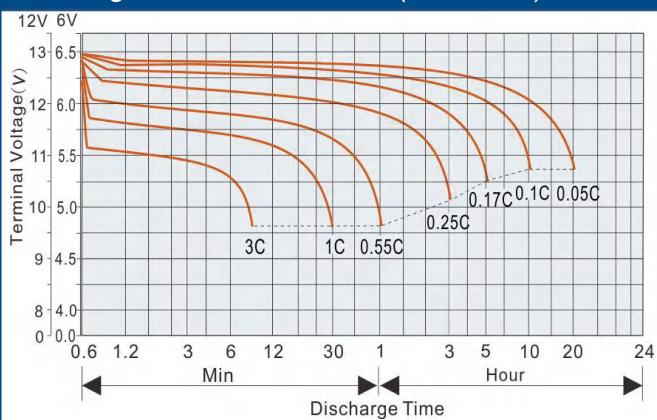
### ● Terminal Type



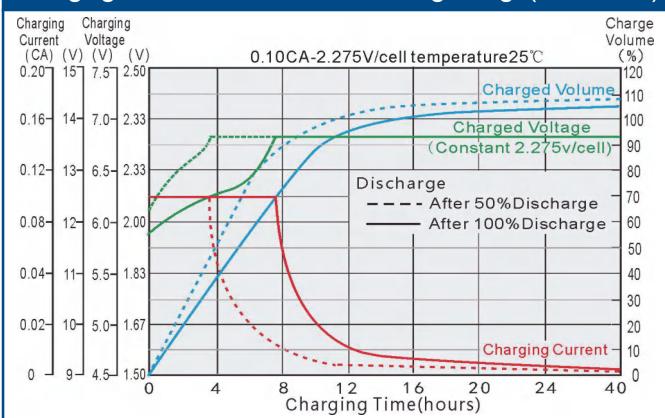
### ● Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	222	175	148	126	96.0	59.0	35.6	25.0	16.6	11.7	9.9
	W	420	334	284	246	195	119.0	72.5	50.5	33.7	23.6	19.9
1.80V/cell	A	244	189	156	133	99.0	60.0	36.1	25.7	17.0	11.9	10.0
	W	454	357	300	260	199	122.0	73.3	51.2	34.2	23.8	20.0
1.75V/cell	A	266	204	164	140	103	62.0	36.7	26.2	17.2	12.1	10.1
	W	487	378	314	270	204	124	74.2	52.2	34.3	24.0	20.2
1.70V/cell	A	282	215	173	146	107	63.0	37.3	26.5	17.4	12.2	10.2
	W	512	396	328	280	209	126.0	74.8	52.7	34.7	24.2	20.4
1.67V/cell	A	292	222	178	149	109	64.0	37.8	26.8	17.5	12.3	10.3
	W	529	408	337	285	212	127.5	75.5	52.8	34.8	24.4	20.5
1.60V/cell	A	308	233	188	156	112	66.0	38.8	27.2	17.8	12.5	10.4
	W	553	425	351	295	218	130.3	77.2	53.5	35.2	24.7	20.6

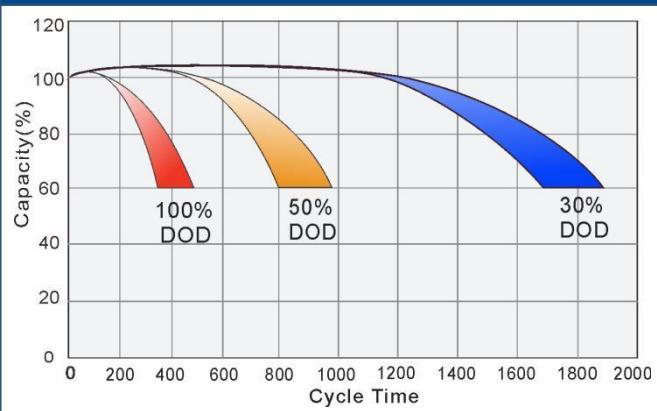
### Discharge characteristic curve (25°C/77°F)



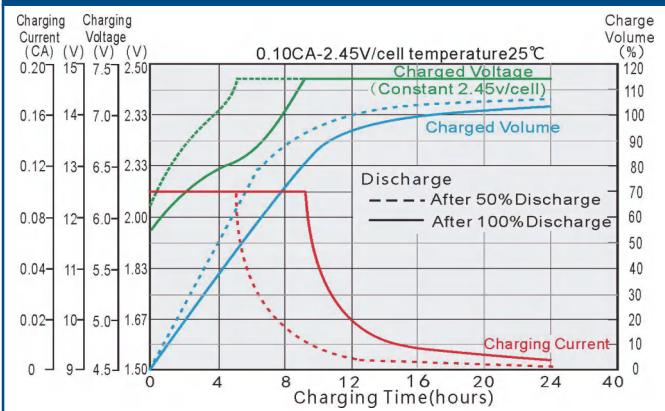
### Charging characteristic curve of floating charge(25°C/77°F)



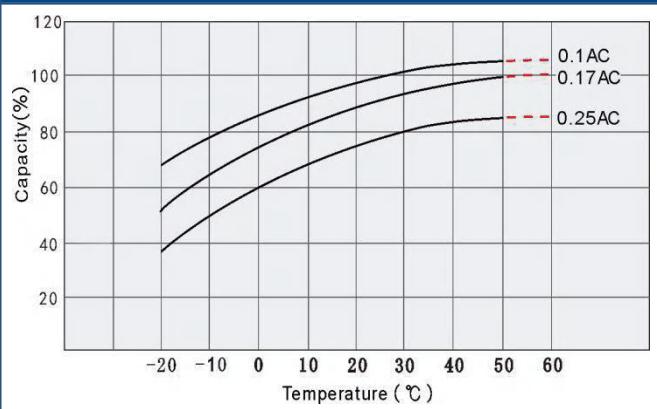
### Cycle service life in relation to depth of discharge



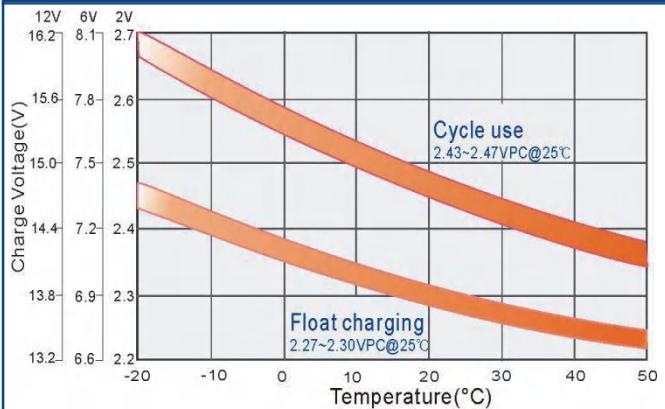
### Cyclic charging characteristic curve (25°C/77°F)



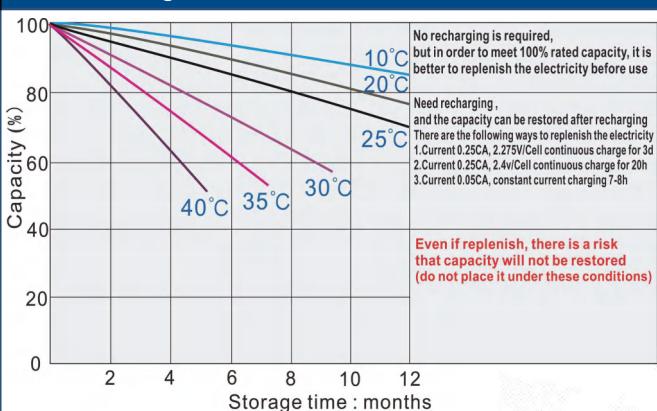
### Relationship between temperature and capacity



### Relationship between charging voltage and temperature



### Self discharge characteristics



### Temperature vs Float Life

