

### **GEL Series Battery**

The GE series batteries use AGM separators technology with Gel electrolyte, Electrolytes don't undergo stratification, Reduce plate grid corrosion rate, effectively extending the battery's service life.

GE series Batteries are designed for 12 years life time floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

## App<mark>licatio</mark>n

- \* Emergency Power System
- \* Communication equipment
- \* Telecommunication systems
- \* Uninterruptible power supplies
- \* Electric toy car and wheelchairs, etc.

### 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

- \* Generator, Power tools
- \* Golf cars and buggies
- \* Marine equipment
- \* Medical equipment
- \* Solar and wind power system



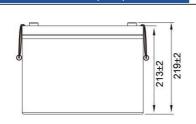
### Construction

- 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

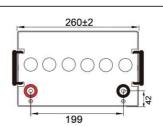
#### Specification

Opcomoduon											
Battery Model	Nominal V		12V (6 cells per unit)								
	Rated capacity (1	<u>10 Hour r</u>	ate)	80Ah (20hr)							
Dimension	Length		Width	Height		Total Height					
Dillicision	260mm (10.24 inches)	169n	nm (6.65 inches)	213mm (8.38 inches)		219mm (8.62 inches)					
Approx Weight	20.70kg(45.64lbs) ± 3%										
Internal Resistance	Full charged at 25°C(77°F):Approx 6.0mΩ										
Maximum Charge Current	22.5A										
Max.discharge current	750A (5Sec.)										
Short-circuit current		1150A									
Operating Temperature	Nominal Operating Temperature	Discharge		Charge		Storage					
Range	<b>25℃(77</b> ℉)	-15℃~	50°C (5°F~122°F)	-15℃~ 40℃ (5℉~104℉)		-15℃~ 40℃ (5℉~104℉)					
Capacity @ 25°C	20hour rate(4.0A,10.5V)	5 hour i	rate(12.89A,10.5V)	3 hour rate(19.26A,10.2V)		1 hour rate(46A,9.6V)					
(77°F)	80.0Ah	64.45Ah		57.78Ah		46.0Ah					
Capacity affected by	40℃ (104℉)		<b>25℃ (77</b> ℉)	0°C (32°F)		-15°C (5°F)					
Temp.(10HR)	102%		100%	85%		65%					
Charge method	Float Charging Voltage		Equalization Cha	arging Voltage		Cycle Use Voltage					
at 25°ℂ(77°F)	13.5~13.8 VDC (-3mV/cell/℃)		14.1~14.4 VDC (-4mV/cell/℃)		14.4~15.0 VDC (-5mV/cell/°C)						

# Outer dimension (mm)







## Terminal Type Unit: mm



Torque:8~10N\*m



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

F.V/Time	е	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	Α	152	122	102	84.5	65.5	39.5	24.20	17.90	12.30	8.33	7.30	3.93
	W	284	230	194	162.0	126.0	76.5	47.1	35.05	24.18	16.47	14.50	7.93
4 001//0011	Α	173	135	111	90.0	68.9	41.3	25.16	18.37	12.62	8.51	7.40	3.97
1.80V/cell	W	316	249	207	171.0	131.0	79.2	48.6	36.00	24.64	16.72	14.67	7.98
1.75V/cell	Α	191	146	119	94.9	71.9	42.9	26.00	18.84	12.89	8.66	7.50	4.01
	W	345	266	218	179.0	136.0	81.6	49.9	36.82	25.03	16.94	14.80	8.02
1.70V/cell	Α	208	156	125	99.4	74.7	44.3	26.75	19.26	13.12	8.79	7.57	4.05
	W	372	282	228	185.0	140.0	83.7	51.0	37.53	25.36	17.13	14.91	8.05
1.67V/cell	Α	216	161	128	101.6	76.1	45.0	27.10	19.52	13.20	8.84	7.62	4.08
	W	385	290	233	188.0	142.0	84.5	51.4	37.77	25.47	17.19	14.95	8.07
1.60V/cell	Α	230	170	133	105.0	78.2	46.0	27.60	20.00	13.35	8.92	7.70	4.12
	W	406	304	241	193.0	145.0	86.1	52.2	38.24	25.69	17.31	15.02	8.09



