

**GE Series Battery**

GEL Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. GEL Series Batteries are the general purpose batteries with 8 years floating design life at 25°C, Meet with IEC, BS, JIS and Eurobat standard, UL (MH62092), CE approved.

**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**

- \* Heavy Duty Grid
- \* Mechanized assembly
- \* Non-spillable construction
- \* High Reliability and Stability
- \* Sealed and Maintenance-free
- \* Long Life and low self-discharge design

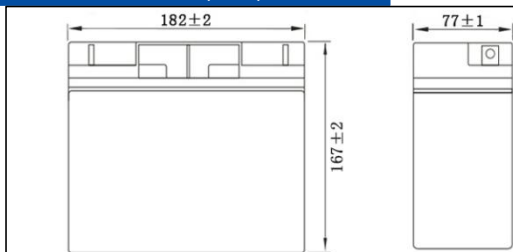
**Construction**

- \* Positive . . . . . Lead dioxide
- \* Electrolyte . . . . . Sulfuric acid
- \* Separator . . . . . Fiber glass
- \* Container . . . . . ABS (UL94-HB)/Flame Retardant ABS (UL94-V0)
- \* Negative . . . . . Lead
- \* Safety Valve . . . . . EPDM
- \* Terminal . . . . . Copper

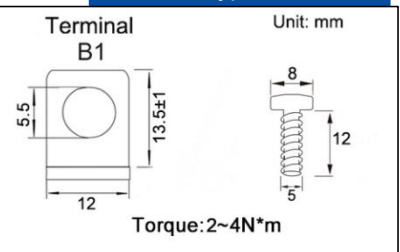
**Specification**

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (20 Hour rate)		18Ah	
Dimension	Length	Width	Height	Total Height
	182mm (7.16 inches)	77mm (3.03 inches)	167mm (6.57 inches)	167mm (6.57 inches)
Approx Weight	5.05kg(11.13 lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 12.9(mΩ/25°C ± 15%)			
Maximum Charge Current	5.4A			
Max. discharge current	270A (5Sec.)			
Short-circuit current	550A			
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)	20 hour rate(0.934A, 10.5V)	10 hour rate(1.738A, 10.5V)	3 hour rate(4.83A, 10.2V)	1 hour rate(11.65A, 9.6V)
	18.68Ah	17.38Ah	14.49Ah	11.65Ah
Capacity affected by Temp.(20HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Charge method at 25°C(77°F)	Float Charging Voltage		Cycle Use Voltage	
	13.5~13.8 VDC (-3mV/cell/°C)		14.4~15.0 VDC (-5mV/cell/°C)	
	Equalization Charging Voltage			
	14.1~14.4 VDC (-4mV/cell/°C)			

**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	1.5h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	44.3	34.0	27.40	23.00	17.55	10.70	7.90	6.35	4.61	3.020	2.030	1.680	0.900
	W	84.3	65.5	53.20	44.90	34.52	21.30	15.80	12.74	9.27	6.091	4.101	3.397	1.825
1.80V/cell	A	48.6	35.9	28.57	23.86	18.05	10.93	8.04	6.47	4.69	3.070	2.067	1.710	0.919
	W	91.0	68.5	55.10	46.36	35.37	21.69	16.04	12.95	9.41	6.176	4.166	3.450	1.860
1.75V/cell	A	52.8	37.8	29.72	24.67	18.54	11.15	8.19	6.58	4.76	3.115	2.100	1.738	0.934
	W	97.3	71.5	57.00	47.72	36.19	22.07	16.29	13.13	9.52	6.252	4.224	3.500	1.887
1.70V/cell	A	57.0	39.6	30.85	25.44	19.02	11.36	8.33	6.68	4.83	3.155	2.130	1.762	0.947
	W	103.3	74.3	58.80	49.01	36.99	22.43	16.53	13.30	9.64	6.320	4.277	3.542	1.911
1.67V/cell	A	59.0	40.5	31.40	25.80	19.25	11.46	8.40	6.72	4.86	3.172	2.140	1.770	0.952
	W	106.1	75.7	59.70	49.60	37.38	22.60	16.65	13.37	9.69	6.349	4.294	3.556	1.920
1.60V/cell	A	63.0	42.3	32.50	26.50	19.70	11.65	8.51	6.80	4.91	3.200	2.160	1.785	0.960
	W	111.6	78.4	61.50	50.77	38.14	22.93	16.84	13.50	9.78	6.397	4.330	3.583	1.935

