

GEL Series Battery

GE series valve regulated lead-acid batteries adopt continuous rolling and stamping grid structure, AGM diaphragm and GEL electrolyte technology, 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.

Application

- * 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

GEL

Construction

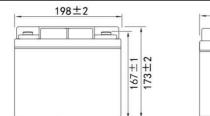
- Positive · · · · · Lead dioxide
- * Electrolyte ·· ·· Sulfuric acid
- * Separator · · · · · Fiber glass

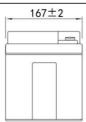
- * Negative · · · · · Lead * Safety Valve ····· EPDM
- * Terminal · · · · · · · Copper
- * Container ··· ·· ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)

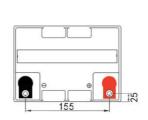
Specification

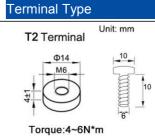
Dottony Model	Nominal V	oltage		12V (6 cells per unit)					
Battery Model	Rated capacity (rate)	40Ah						
Dimension	Length		Width	Height		Total Height			
Dimension	198mm (7.79 inches)	167	7mm (6.57 inches) 173mm (6.81 inches)		nches)	173mm (6.81 inches)			
Approx Weight	11.7kg(25.79 lbs) ± 3%								
Internal Resistance	Full charged at 25°C(77°F):Approx 8.58mΩ								
Maximum Charge Current	12.0A								
Max.discharge current	480A (5Sec.)								
Short-circuit current	840A								
Operating Temperature	Nominal Operating Temperature	Discharge		Charge		Storage			
Range	25℃(77 ℉)	-15℃~ 50℃ (5℉~122℉)		-15℃~ 40℃ (5℉~104℉)		-15℃~ 40℃ (5℉~104℉)			
Capacity @ 25°C	10 hour rate(4.00A,10.8V)	5 hour rate(7.04A,10.5V)		3 hour rate(10.73A,10.2V)		1 hour rate(26.75A,9.6V)			
(77 °F)	40.00Ah	35.20Ah		32.19Ah		26.75Ah			
Capacity affected by	40℃ (104℉)	25℃ (77℉)		0°C (32°F)		-15°C (5°F)			
Temp.(10HR)	102%		100%	85%		65%			
Charge method	Float Charging Voltage		Equalization Cha	rging Voltage		Cycle Use Voltage			
at 25°C(77°F)	13.5~13.8 VDC (-3mV/cell/℃)		14.1~14.4 VDC	(-4mV/cell/°C)	14.4~15.0 VDC (-5mV/cell/°C)				

Outer dimension (mm)









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	90.0	71.0	58.9	49.7	38.3	23.91	13.79	10.10	6.79	4.72	3.93	2.102
	W	170	135	112.9	96.1	74.8	47.33	27.50	20.20	13.62	9.49	7.92	4.240
1.80V/cell	Α	101	76.1	62.1	52.1	40.0	24.67	14.12	10.33	6.92	4.80	4.00	2.140
	W	188	143	118.7	100.1	77.6	48.61	28.05	20.58	13.84	9.63	8.04	4.310
1.75V/cell	Α	112	80.8	65.2	54.3	41.4	25.34	14.42	10.53	7.04	4.87	4.04	2.161
	W	205	151	123.5	103.6	80.0	49.69	28.57	20.95	14.05	9.75	8.10	4.350
1.70V/cell	Α	123	85.2	68.1	56.5	42.7	25.97	14.71	10.73	7.15	4.92	4.07	2.177
	W	221	156	127.4	107.0	82.1	50.76	29.05	21.29	14.24	9.83	8.15	4.370
1.67V/cell	Α	128	87.5	69.6	57.5	43.4	26.28	14.84	10.83	7.20	4.94	4.08	2.183
	W	228	159	129.3	108.6	83.2	51.25	29.28	21.45	14.33	9.86	8.16	4.380
1.60V/cell	Α	137	91.2	71.9	59.2	44.4	26.75	15.07	10.99	7.28	4.98	4.10	2.194
	W	240	165	133.2	111.1	84.6	52.04	29.67	21.74	14.47	9.93	8.20	4.400

