



## CBE100-12 (12V100Ah)

### GEL Series Batteries

GEL Series batteries are designed with special separator and GEL deep cycle technology to give Extra-durable cyclic performance at extreme temperature.  
GEL series Batteries are the DEEP CYCLE batteries with 12 years floating design life at 25 °C. Meet with IEC, BS, JIS and Eurobat standard.

### Application

- \* Emergency power system
- \* Communication equipment
- \* Telecommunication systems
- \* Uninterruptible power supply
- \* Electric bicycle and wheelchair, etc.
- \* Power tool
- \* Golf car and buggy
- \* Marine equipment
- \* Solar and wind power system



### General Features

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

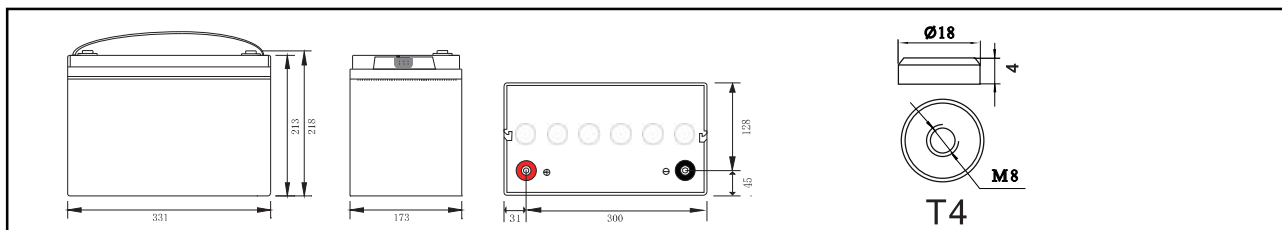
### Construction

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

### Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		100Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	331mm(13.03inch)	173mm(6.81inch)	213mm(8.39inch)	218mm(8.58inch)
Approx Weight	28.6kg(63.05lbs)±3%			
Capacity @ 25°C (77°F)	20 hour rate(5A,10.5V)	5 hour rate(17A,10.5V)	3 hour rate(24A,10.5V)	1 hour rate(60A,9.6V)
	100Ah	85Ah	72Ah	60Ah
Max.discharge current	800A(5 sec.)			
Internal Resistance	Full charged at 25°C(77°F): approx 4.2mΩ			
Capacity affected by Temp.(20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.40-14.70V(Initial charge current less than 30A)		13.50-13.80V	

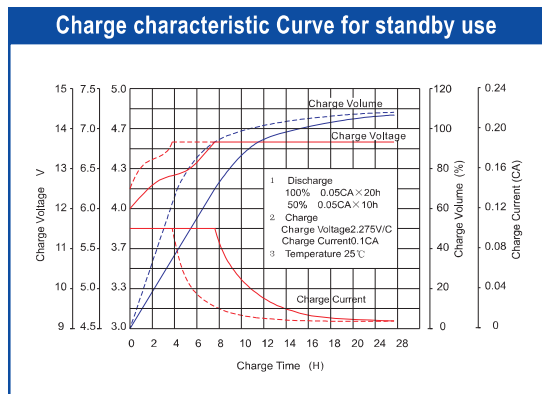
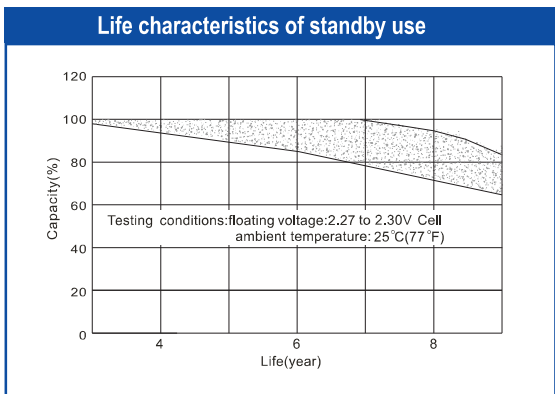
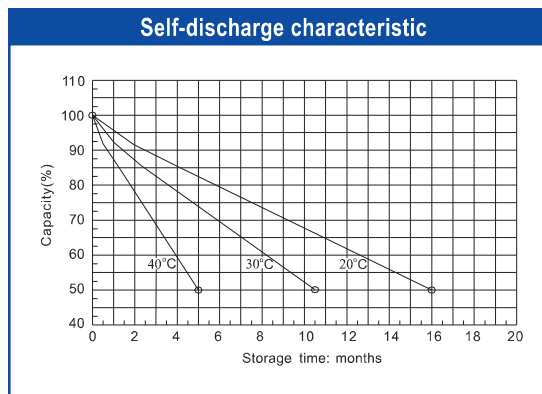
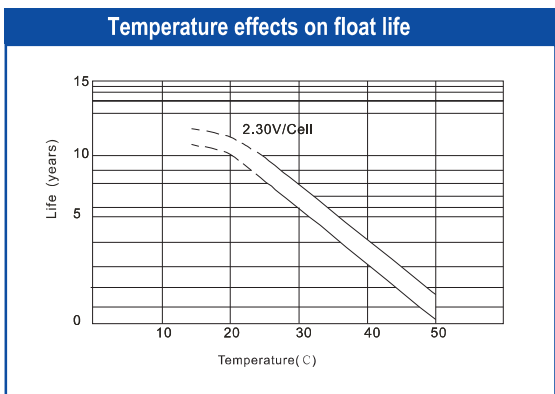
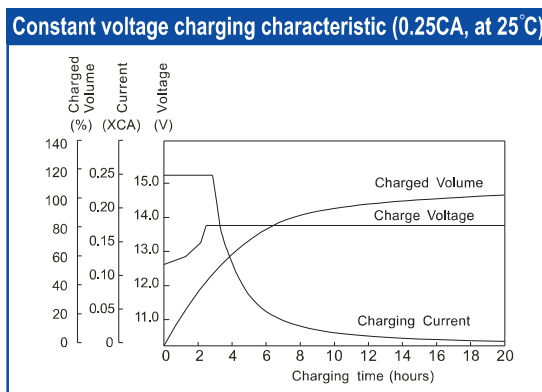
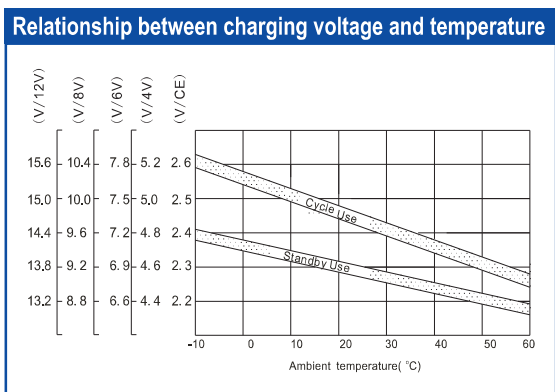
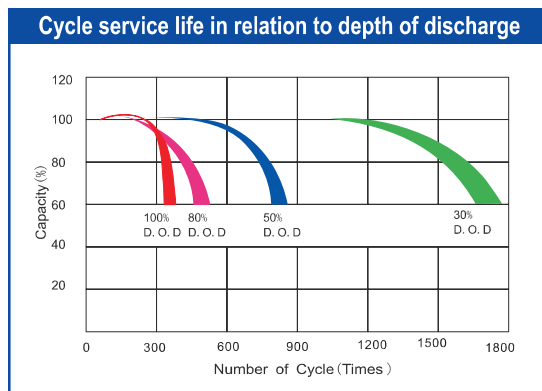
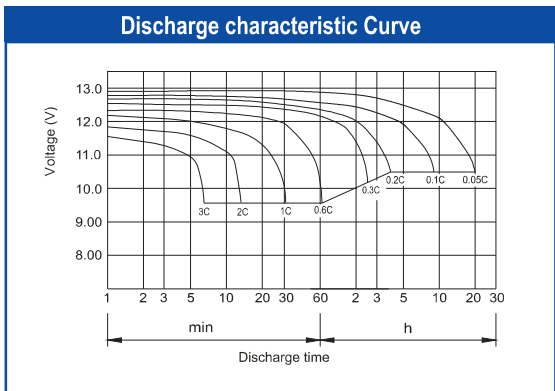
### Outer dimension (mm)



### Terminal Type (mm)

Constant Current(A) and Constant Power(W) Discharge table at 25 °C (77°F)												
F.V\TIME	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	A	360.0	236.0	175.0	115.0	60.00	35.00	25.75	20.67	17.54	11.58	5.17
	W	3736.8	2534.6	1876.4	1236.5	648.00	384.30	286.60	232.50	199.45	132.74	60.08
10.20V	A	330.0	225.8	160.8	109.2	56.33	33.58	25.00	20.00	17.21	11.38	5.04
	W	3544.2	2524.4	1799.7	1225.5	637.13	387.08	289.50	232.56	200.61	133.09	60.16
10.50V	A	300.4	211.0	150.0	105.8	54.50	32.92	24.58	19.00	17.00	11.25	5.00
	W	3298.6	2400.3	1711.8	1217.9	631.11	381.77	286.44	222.30	199.31	132.30	60.85
10.80V	A	288.7	201.7	140.0	102.9	52.67	32.08	24.17	18.67	16.25	10.96	4.88
	W	3239.2	2325.6	1612.8	1192.4	613.04	375.76	284.93	220.42	192.08	129.86	58.06
11.10V	A	267.0	190.0	130.0	100.0	50.83	31.25	22.92	18.33	15.54	10.67	4.75
	W	3027.8	2200.2	1513.2	1170.0	597.80	369.38	272.25	218.35	185.47	127.74	57.57

Note: The above datas are average values. (Edition 2018-03)



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