

## Deep Cycle Long Life GEL Battery

## DC2-100G

DC2 GEL series uses the newly developed nano gel electrolyte with super-C additive plus heavy duty plates design inside. The HTB series has a long service life and can provide optimum and reliable service under extreme condition such as high temperature and frequent power failure, This series is highly suited for tropical area in outdoor applications such as Telecom BTS stations and Off-grid PV system.

2V  
100Ah

GEL  
Technology

Deep  
Cycle



### COMPLIED STANDARDS



### Applications

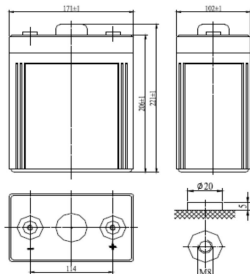
- BTS Stations
- Solar & Wind energy system
- UPS system
- Telecom systems
- Wheel chair, Golf Car

### General Features

- ✓ Able to operate at 40-60°C
- ✓ DOD 50% 1500 times Cycles
- ✓ Integrated design to ensure the best Uniformity and reliability
- ✓ Long life and high stability under high temp. environment (no air-con needed)
- ✓ Use super-C additives: Deep discharge recovery capability

### Dimensions & Weight

Length(mm/inch)	171/6.73
Width(mm/inch)	72/2.83
Height(mm/inch)	205/8.08
Total Height(mm/inch)	230/9.05
Weight(kg/lbs)	5.8/12.8



### Technical Specifications

Nominal Voltage		2V (1 cell per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C (10 hour rate@10.0A, 1.8V)		100Ah
Capacity @25°C	20hour rate (5.3A, 1.8V)	106h
	5 hour rate (17A, 1.75V)	85Ah
	1 hour rate (63.8A, 1.6V)	63.8Ah
Internal Resistance	Full Charged Battery@25°C	≤2.0mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		400A(5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 20A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 20A Voltage 2.33-2.37V

### Battery Discharge Table

#### Discharge Constant Current per Cell (Amperes at 25° C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	149.5	99	73.5	60.5	38.5	27.5	18.5	12.5	11	5.85
1.65V	147	97	72.5	59.5	38	27	18.5	12	10.8	5.7
1.70V	144	95.5	71	58.5	37	26.5	18	12	10.6	5.6
1.75V	141.5	93.5	69.5	57	36.5	26	17.5	11.5	10.4	5.5
1.80V	136	90	67	55	35	25	17	11	10	5.3

#### Discharge Constant Power per Cell (Watts at 25° C)

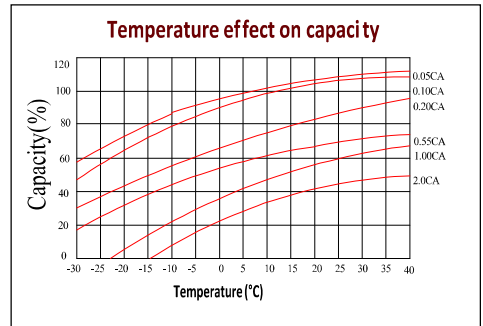
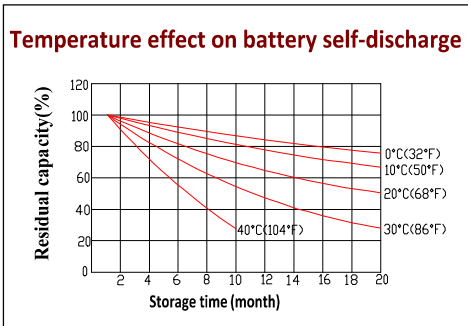
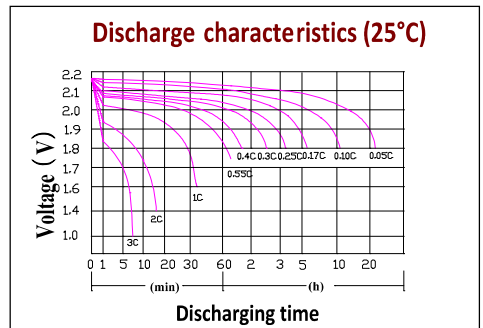
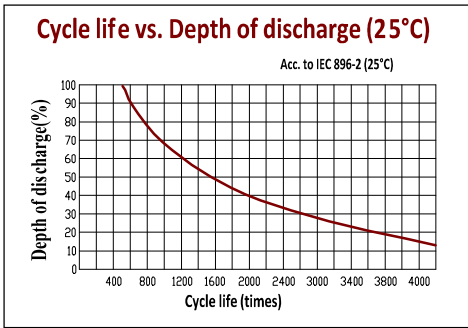
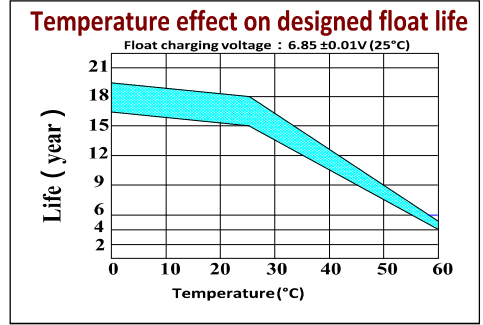
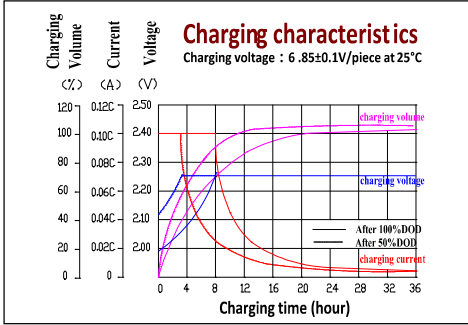
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	288	190.5	142	116.5	74	53	36	23.5	21.2	11.2
1.65V	282.5	187	139.5	114.5	73	52	35.5	23.5	20.8	11
1.70V	277.5	183.5	136.5	112	71.5	51	34.5	23	20.4	10.8
1.75V	272.5	180	134	110	70	50	34	22.5	20	10.6
1.80V	262	173.5	129	106	67.5	48	32.5	21.5	19.25	10.2

**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSBattery** for the latest information.

## Deep Cycle Long Life GEL Battery

## DC2-100G

### Performance Characteristics



### Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistant e ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Advanced PVC /AGM separator for high pressure cell design	Silicon Gel	Two layers epoxy resin seal

Add: Building Evolution, Xingdong industry Park, NO.61, Liuxian 2nd Road, Baoan, Shenzhen, China.

Tel: +86-755-29123661 Email: Sales@CSBattery.cn ,Support@CSBattery.cn

Website: [www.CSBattery.cn](http://www.CSBattery.cn)