

## Deep Cycle Long Life GEL Battery

## DC2-1500G

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  
1500Ah

GEL  
Technology

Deep  
Cycle



### COMPLIED STANDARDS



### Applications

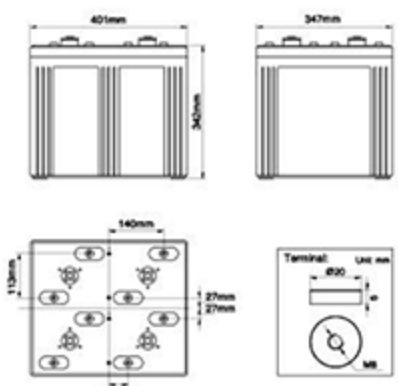
- > BTS Stations
- > Solar & Wind energy system
- > UPS system
- > Telecom systems
- > Wheel chair, Golf Car

### 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)	401/15.8
Width(mm/inch)	351/13.8
Height(mm/inch)	342/13.5
Total Height(mm/inch)	378/14.9
Weight(kg/lbs)	97/214



### Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@1500.0A,1.8V)		1500Ah
Capacity @25°C	20hour rate (79.5A,1.8V)	1590Ah
	5 hour rate (265A,1.75V)	1325Ah
	1 hour rate (908A,1.6V)	908Ah
Internal Resistance	Full Charged Battery@25°C	≤0.13mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		3000A(5s)
Capacity affected by Temperature (10 hour)	40°C	102%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 225A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 225A Voltage 2.33-2.37V

### Battery Discharge Table

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	4191	2706	2244	1485	1106	908	578	413	281	185	165.0	87.5
1.65V	4115	2657	2203	1458	1085	891	567	405	275	181	162.0	85.9
1.70V	4039	2608	2162	1431	1065	875	557	398	270	178	159.0	84.3
1.75V	3962	2558	2122	1404	1045	858	546	390	265	175	156.0	82.7
1.80V	3810	2460	2040	1350	1005	825	525	375	255	168	150.0	79.5

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	8068	5209	4320	2859	2128	1747	1112	794	540	356	317.6	168.3
1.65V	7921	5114	4241	2807	2089	1715	1091	780	530	349	311.9	165.3
1.70V	7774	5020	4163	2755	2051	1683	1071	765	520	343	306.1	162.2
1.75V	7628	4925	4084	2703	2012	1652	1051	751	511	336	300.3	159.2
1.80V	7334	4736	3927	2599	1935	1588	1011	722	491	323	288.8	153.0

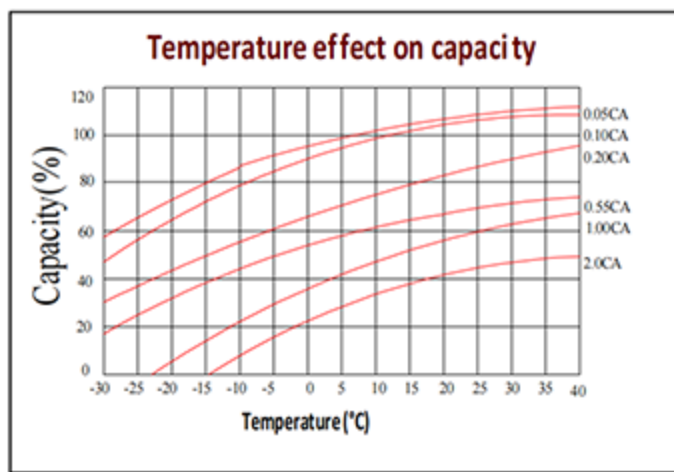
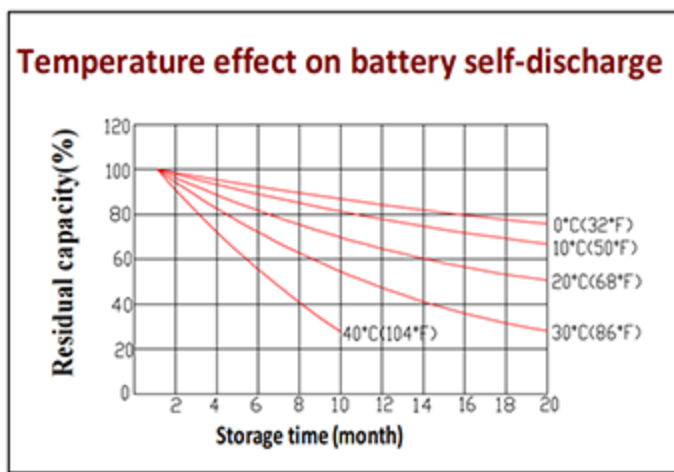
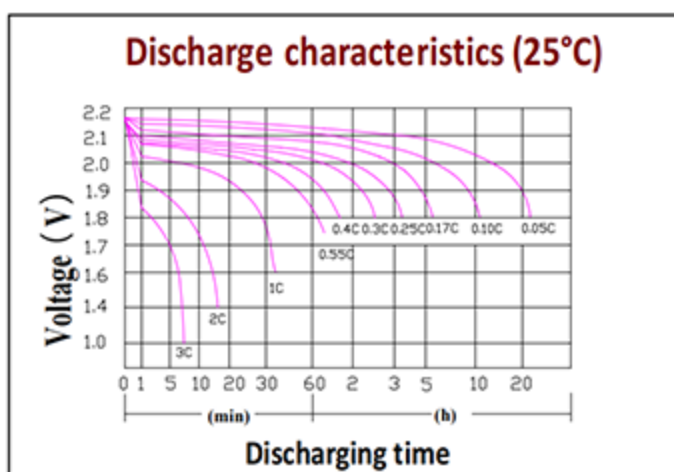
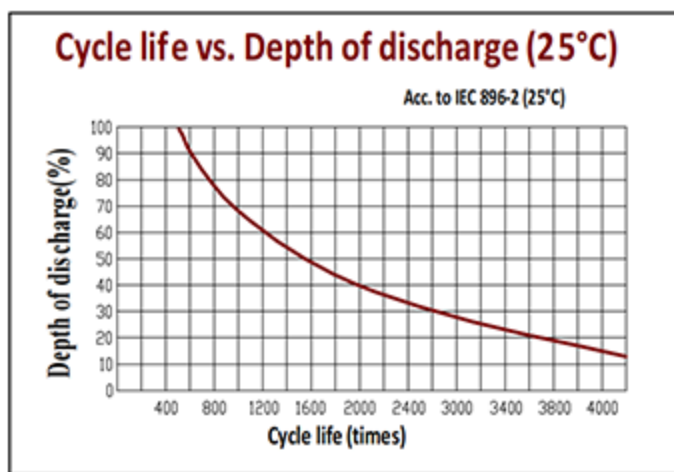
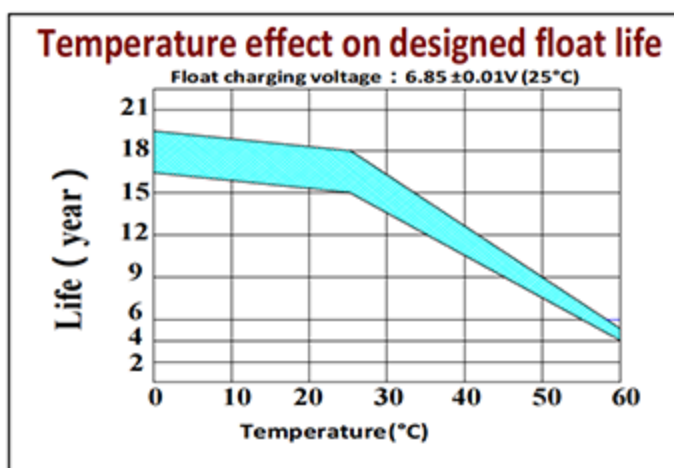
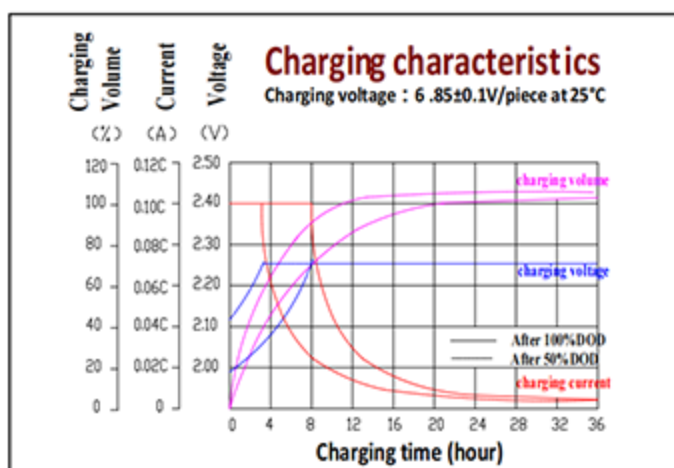
**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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## Deep Cycle Long Life GEL Battery

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### 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