

Deep Cycle Long Life GEL Battery

DC2-200G

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
200Ah

GEL
Technology

Deep
Cycle



COMPLIED STANDARDS



Applications

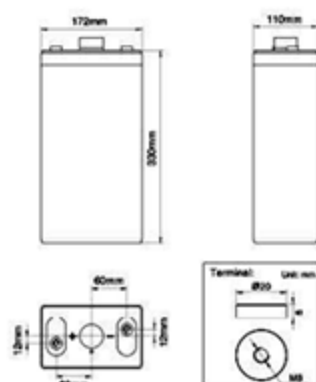
- BTS Stations
- Solar & Wind energy system
- UPS system
- Telecom systems
- Wheel chair, Golf Car

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)	173/6.81
Width(mm/inch)	111/4.37
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	13.4/29.5



Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@20.0A,1.8V)		200Ah
Capacity @25°C	20hour rate (10.6A,1.8V)	212Ah
	5 hour rate (35A,1.75V)	175Ah
	1 hour rate (121A,1.6V)	121Ah
Internal Resistance	Full Charged Battery@25°C	≤0.47mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		400A(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 30A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 30A 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	559	361	299	198	147	121	77	55	37	25	22.0	11.7
1.65V	549	354	294	194	145	119	76	54	37	24	21.6	11.4
1.70V	538	348	288	191	142	117	74	53	36	24	21.2	11.2
1.75V	528	341	283	187	139	114	73	52	35	23	20.8	11.0
1.80V	508	328	272	180	134	110	70	50	34	22	20.0	10.6

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	1076	695	576	381	284	233	148	106	72	47	42.4	22.4
1.65V	1056	682	565	374	279	229	146	104	71	47	41.6	22.0
1.70V	1037	669	555	367	273	224	143	102	69	46	40.8	21.6
1.75V	1017	657	545	360	268	220	140	100	68	45	40.0	21.2
1.80V	978	631	524	347	258	212	135	96	65	43	38.5	20.4

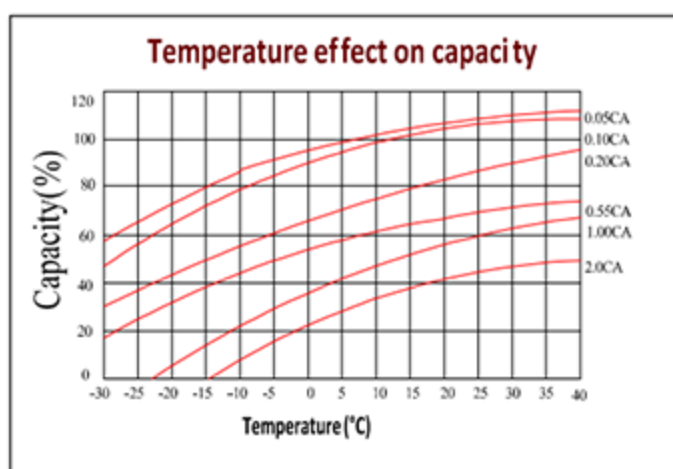
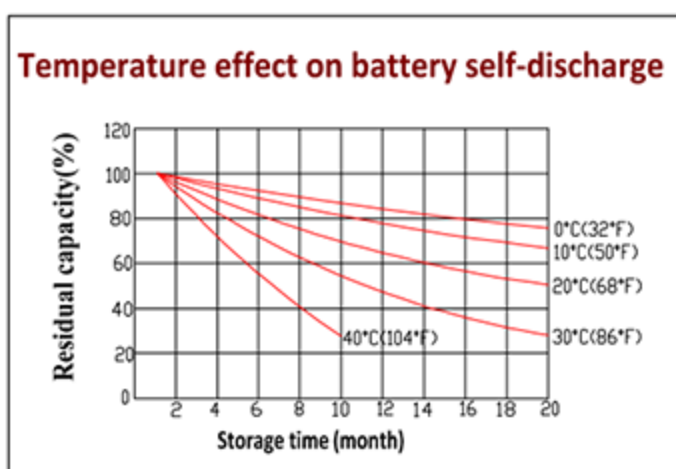
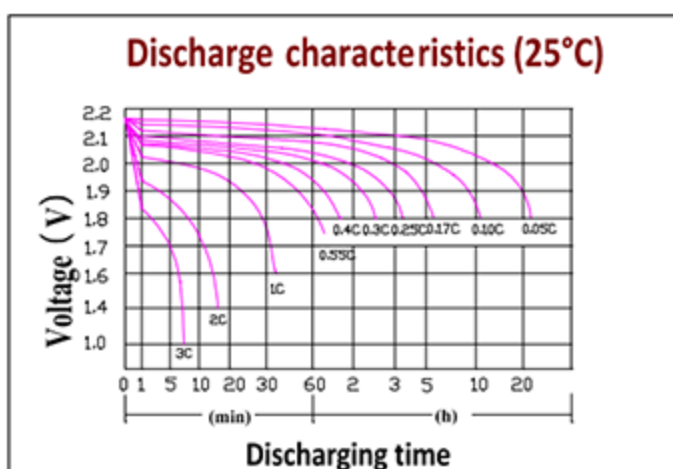
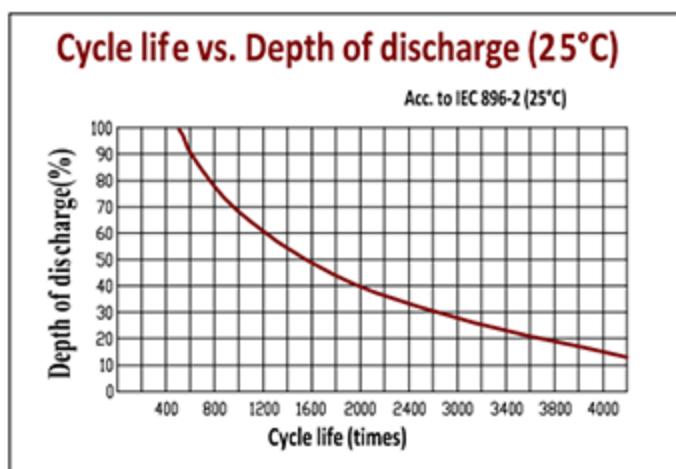
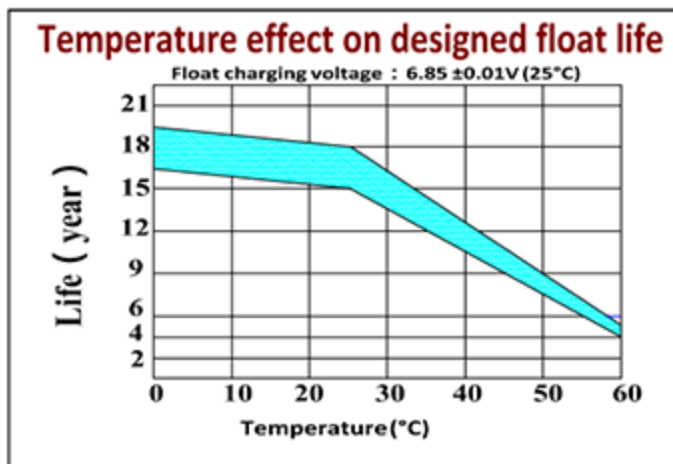
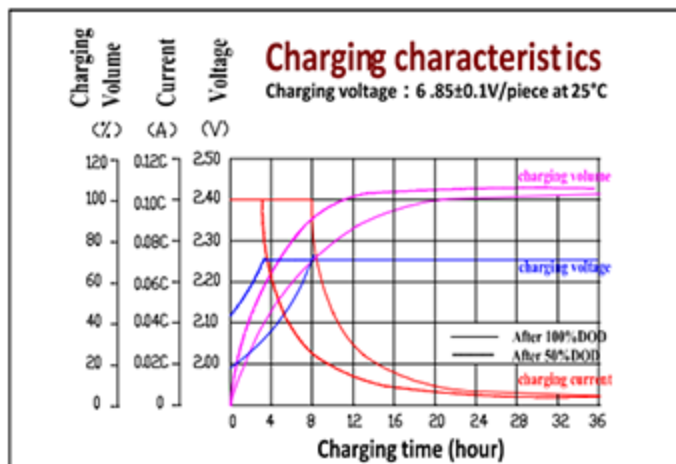
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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 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

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