

Deep Cycle Long Life GEL Battery

DC2-600G

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
600Ah

GEL
Technology

Deep
Cycle



Applications

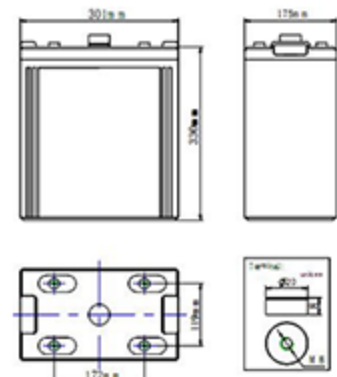
- BTS Stations
- Solar & Wind energy system
- UPS system
- Telecom systems
- Wheel chair, Golf Car

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)	301/11.85
Width(mm/inch)	175/6.89
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	37.9/83.4



Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@60.0A,1.8V)		600Ah
Capacity @25°C	20hour rate (31.8A,1.8V)	636Ah
	5 hour rate (106A,1.75V)	530Ah
	1 hour rate (363A,1.6V)	363Ah
Internal Resistance	Full Charged Battery@25°C	≤0.27mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		1200A(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 90A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 90A 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	1676	1082	898	594	442	363	231	165	112	74	66.0	35.0
1.65V	1646	1063	881	583	434	356	227	162	110	73	64.8	34.3
1.70V	1615	1043	865	572	426	350	223	159	108	71	63.6	33.7
1.75V	1585	1023	849	562	418	343	218	156	106	70	62.4	33.1
1.80V	1524	984	816	540	402	330	210	150	102	67	60.0	31.8

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	3227	2084	1728	1143	851	699	445	318	216	142	127.1	67.3
1.65V	3168	2046	1696	1123	836	686	437	312	212	140	124.7	66.1
1.70V	3110	2008	1665	1102	820	673	429	306	208	137	122.4	64.9
1.75V	3051	1970	1634	1081	805	661	420	300	204	135	120.1	63.7
1.80V	2934	1894	1571	1040	774	635	404	289	196	129	115.5	61.2

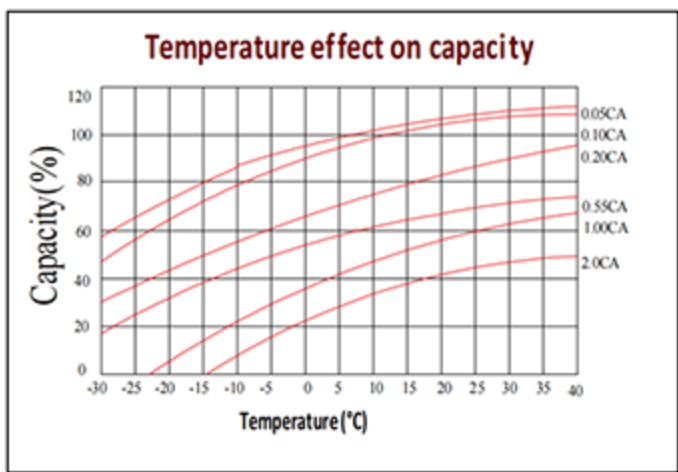
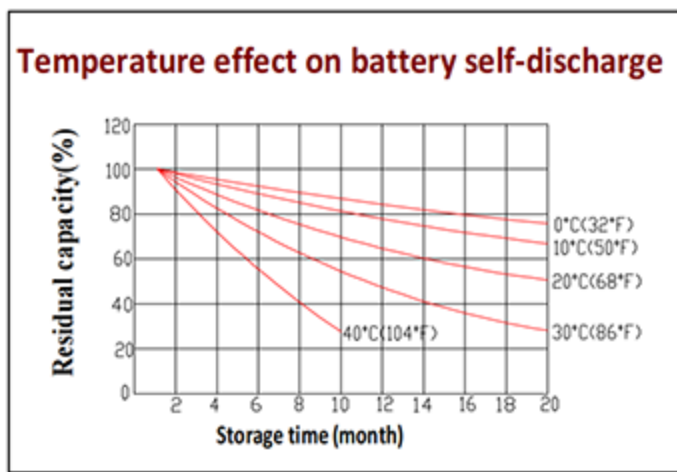
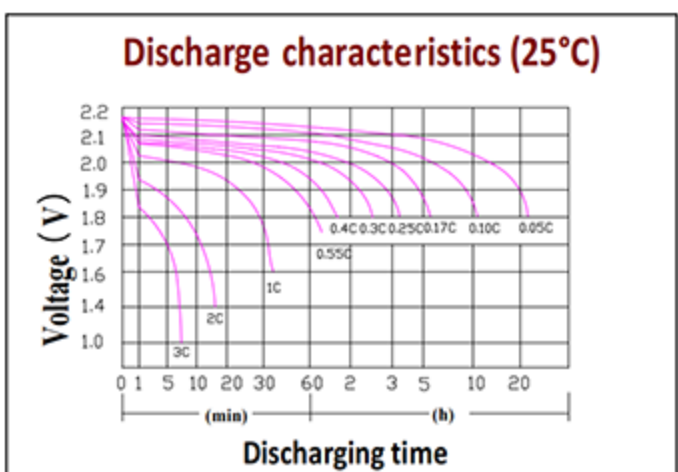
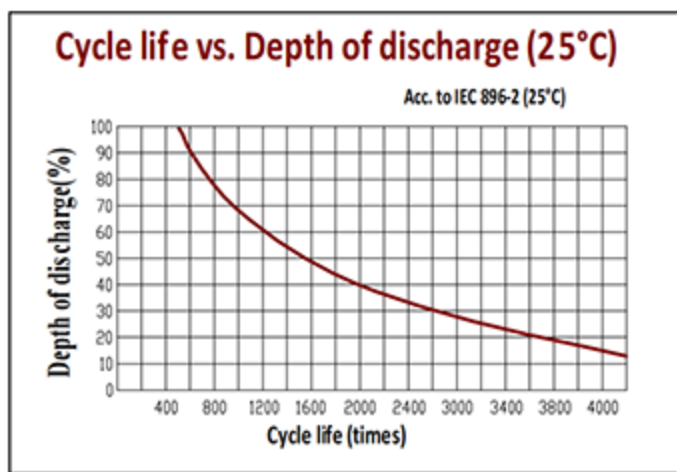
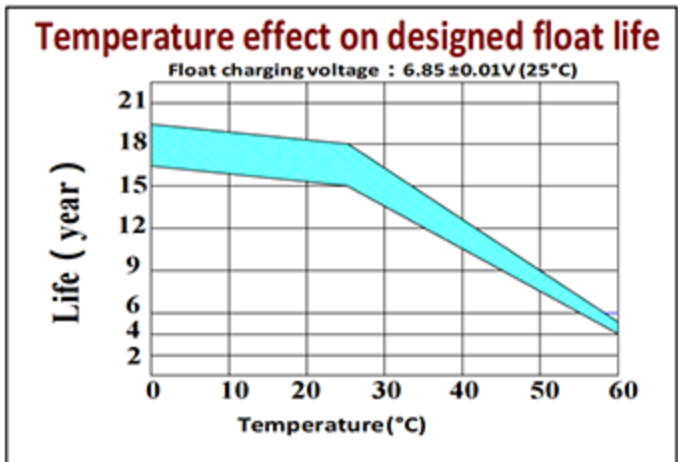
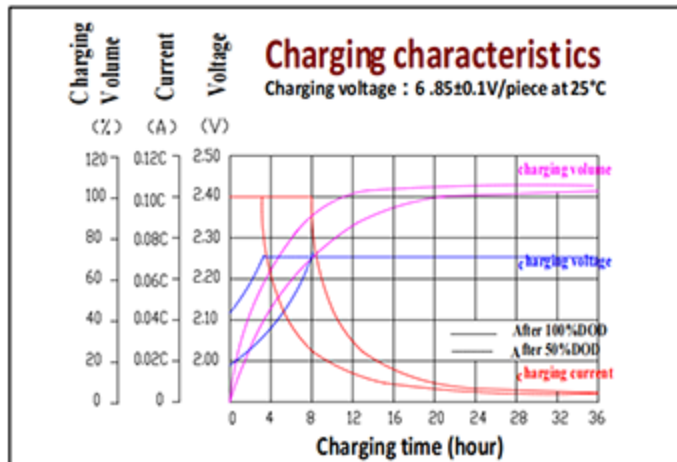
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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