

DEEP CYCLE GEL Battery

CG2-3000

CSPower CG series pure GEL battery is with 15-20 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By adopting thicker grids, high purity 99.997% lead and patented Silicon Gel electrolyte, CG series offers excellent recovery performance after deep discharge under frequent cyclic discharge use, and can deliver 1500 cycles at 50% DOD even work in hot or cold area. Suitable for Solar, CATV, marine, RV and deep discharge UPS, communication, and telecommunication , etc.

2V Voltage	3000Ah Capacity	GEL Technology	Durable Battery
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COMPLIED STANDARDS



GENERAL FEATURES

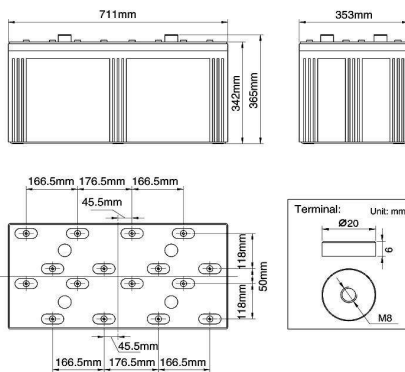
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

APPLICATIONS

- Telecommunications
- UPS systems, Inverter
- Power Equipments
- Solar & Wind
- Emergency & Security

DIMENSIONS & WEIGHT

Length(mm/inch)	712/28.1
Width(mm/inch)	353/13.9
Height(mm/inch)	342/13.5
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)(±3%)	190.5/420



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@300.0A,1.8V)		3000Ah
Capacity @25°C	20hour rate (159A,1.8V)	3180Ah
	5 hour rate (530A,1.75V)	2650Ah
	1 hour rate (1815A,1.6V)	1815Ah
Internal Resistance	Full Charged Battery@25°C	<0.08mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		6000A(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 450A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 450A Voltage 2.33-2.37V

BATTERY DISCHARGE TABEL

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	8382	5412	4488	2970	2211	1815	1155	825	561	370	330.0	174.9
1.65V	8230	5314	4406	2916	2171	1782	1134	810	551	363	324.0	171.7
1.70V	8077	5215	4325	2862	2131	1749	1113	795	541	356	318.0	168.5
1.75V	7925	5117	4243	2808	2090	1716	1092	780	530	349	312.0	165.4
1.80V	7620	4920	4080	2700	2010	1650	1050	750	510	336	300.0	159.0

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

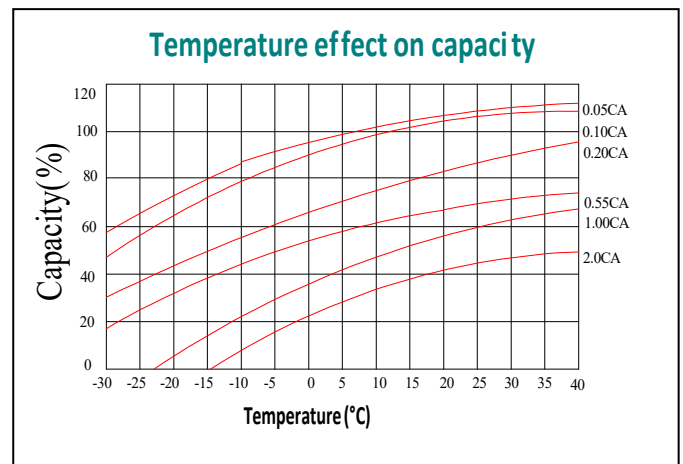
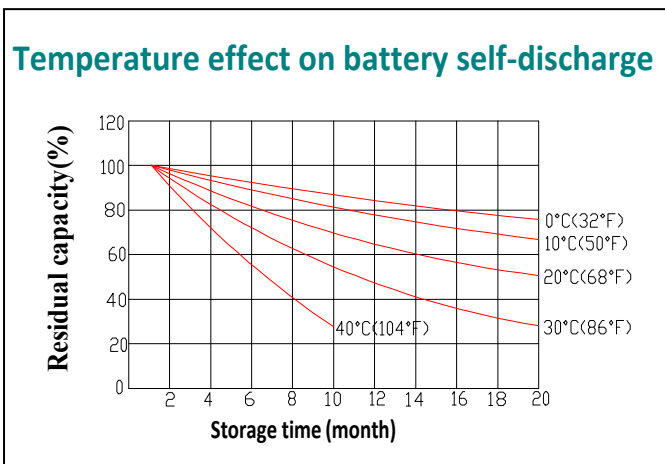
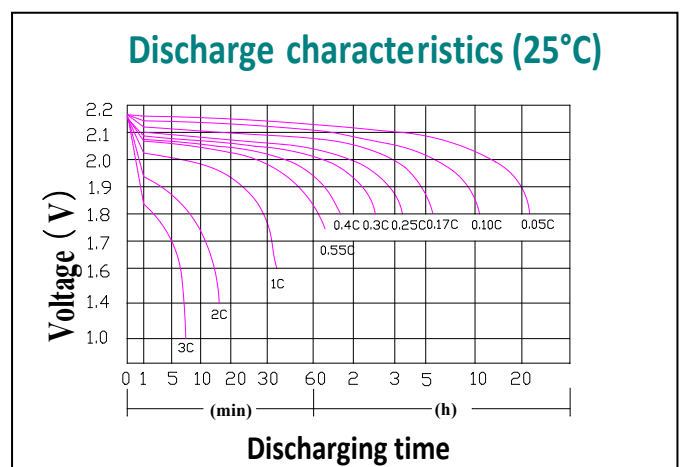
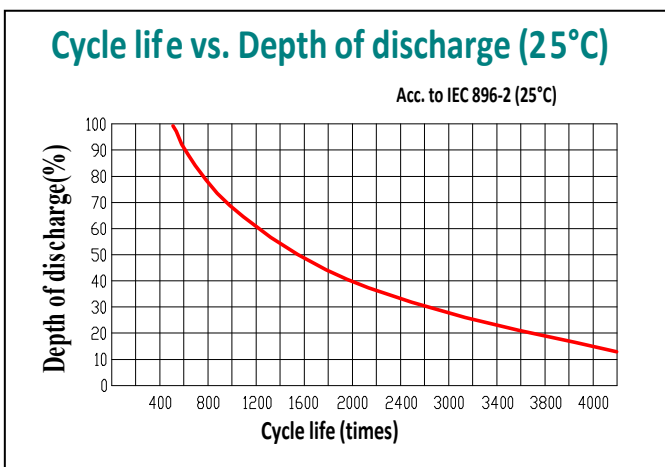
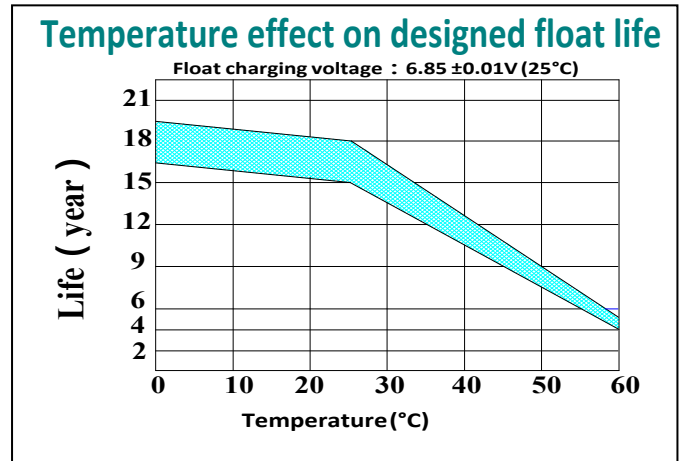
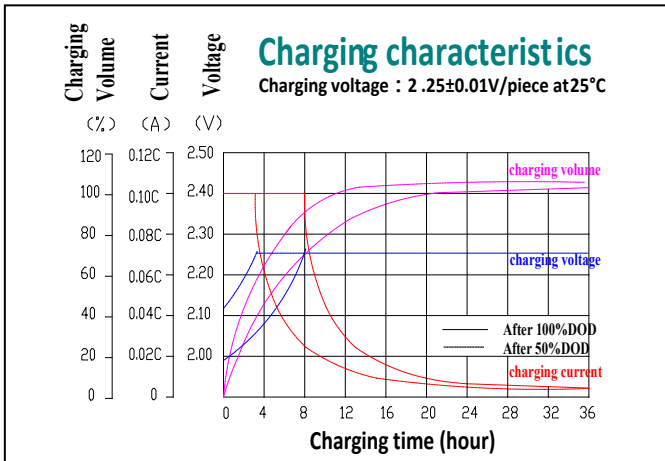
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	16135	10418	8639	5717	4256	3494	2223	1588	1080	711	635.3	336.7
1.65V	15842	10229	8482	5613	4179	3430	2183	1559	1060	699	623.7	330.6
1.70V	15549	10039	8325	5509	4101	3367	2143	1530	1041	686	612.2	324.4
1.75V	15255	9850	8168	5405	4024	3303	2102	1502	1021	673	600.6	318.3
1.80V	14669	9471	7854	5198	3869	3176	2021	1444	982	647	577.5	306.1

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 **CSPower** 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	ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Fiberglass	Silicon Gel	Two layers epoxy resin seal