

DEEP CYCLE GEL Battery

CG2-2500

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	2500Ah Capacity	GEL Technology	Durable Battery
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COMPLIED STANDARDS



GENERAL FEATURES

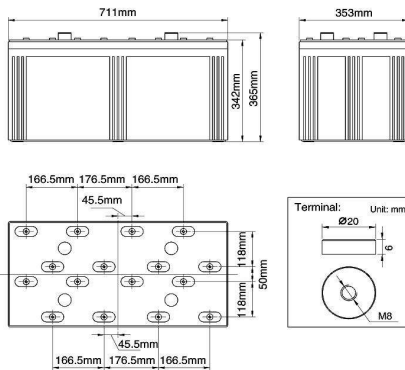
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

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%)	180.5/398



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@250.0A,1.8V)		2500Ah
Capacity @25°C	20hour rate (132.5A,1.8V)	2650Ah
	5 hour rate (437A,1.75V)	2185Ah
	1 hour rate (1458A,1.6V)	1458Ah
Internal Resistance	Full Charged Battery@25°C	<0.10mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		5000A(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 375A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 375A 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	2338	1760	1458	949	679	462	308	275	145.8
1.65V	8230	5314	4406	2295	1728	1431	932	667	454	302	270	143.1
1.70V	8077	5215	4325	2253	1696	1405	914	655	445	297	265	140.5
1.75V	7925	5117	4243	2210	1664	1378	897	642	437	291	260	137.8
1.80V	7620	4920	4080	2125	1600	1325	863	618	420	280	250	132.5

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

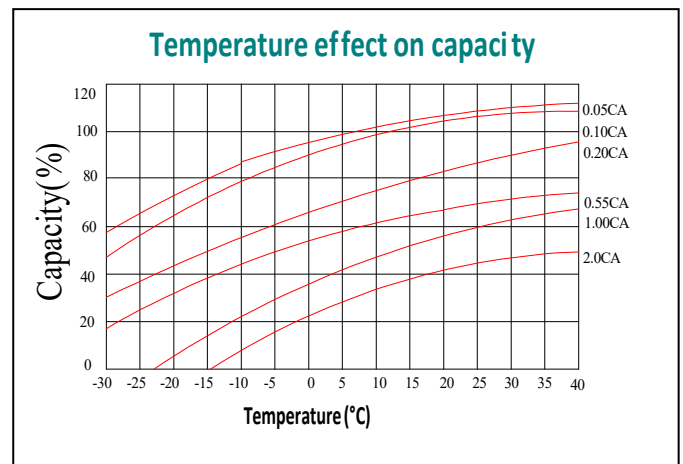
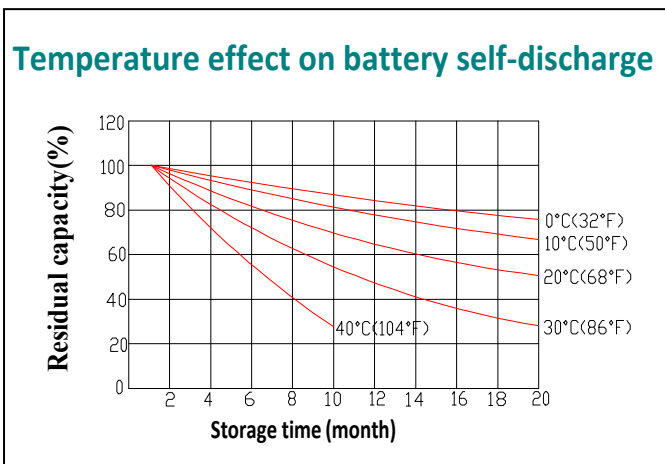
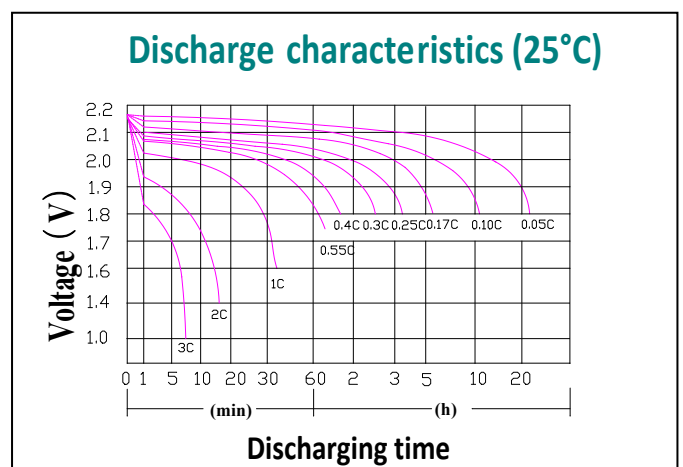
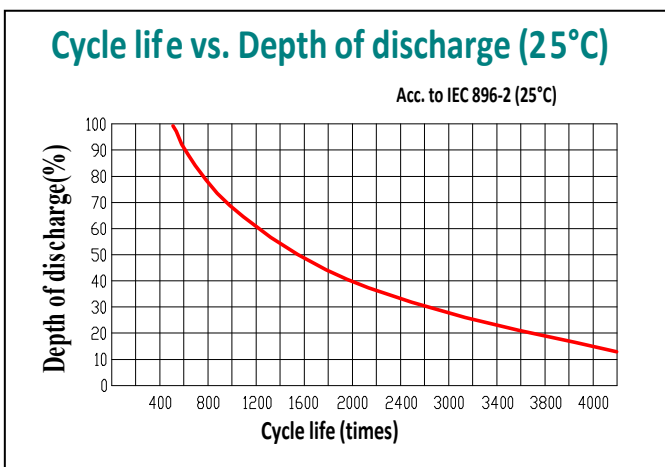
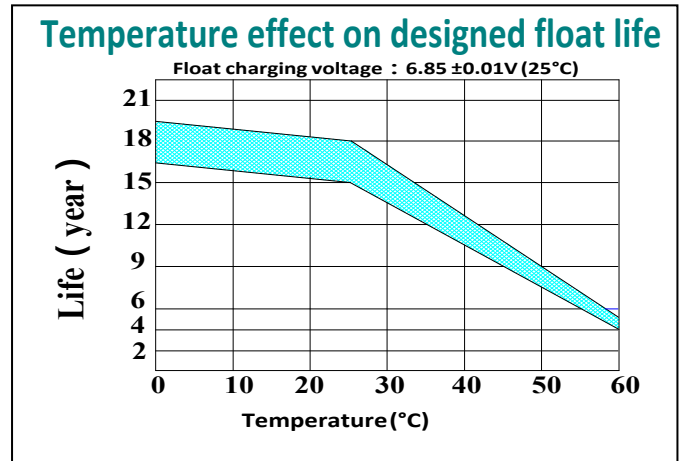
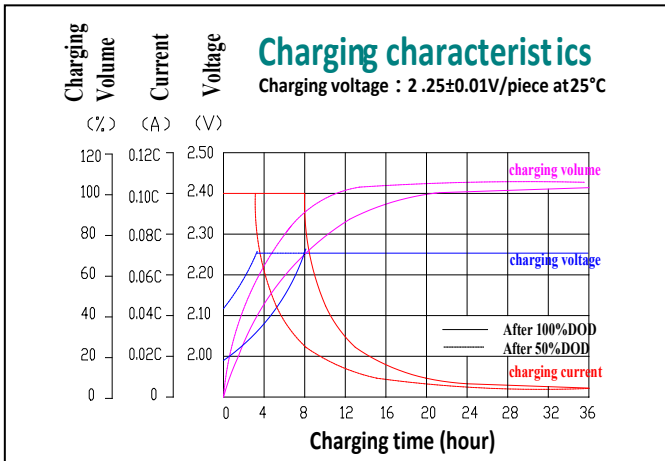
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	16135	10418	8639	5717	4256	3494	2223	1588	1080	711	635.3	336.7
1.65V	15842	10229	8482	5613	4179	3430	2183	1559	1060	699	623.7	330.6
1.70V	15549	10039	8325	5509	4101	3367	2143	1530	1041	686	612.2	324.4
1.75V	15255	9850	8168	5405	4024	3303	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

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