

DEEP CYCLE GEL Battery

CG2-500

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	500Ah Capacity	GEL Technology	Durable Battery
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COMPLIED STANDARDS



GENERAL FEATURES

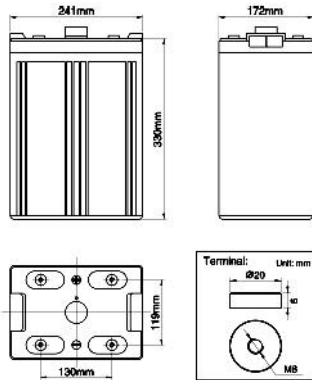
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	241/9.49
Width(mm/inch)	171/6.74
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	31.5/69.5



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C (10 hour rate@50.0A,1.8V)		500Ah
Capacity @25°C	20hour rate (26.5A,1.8V)	530Ah
	5 hour rate (88A,1.75V)	440Ah
	1 hour rate (303A,1.6V)	303Ah
Internal Resistance	Full Charged Battery@25°C	≤0.31mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		1000A(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 75A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 75A 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	1397	902	748	495	369	303	193	138	94	62	55.0	29.2
1.65V	1372	886	734	486	362	297	189	135	92	60	54.0	28.6
1.70V	1346	869	721	477	355	292	186	133	90	59	53.0	28.1
1.75V	1321	853	707	468	348	286	182	130	88	58	52.0	27.6
1.80V	1270	820	680	450	335	275	175	125	85	56	50.0	26.5

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

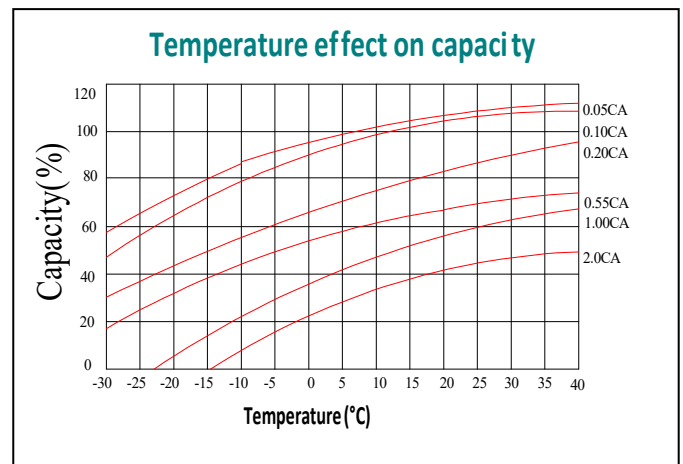
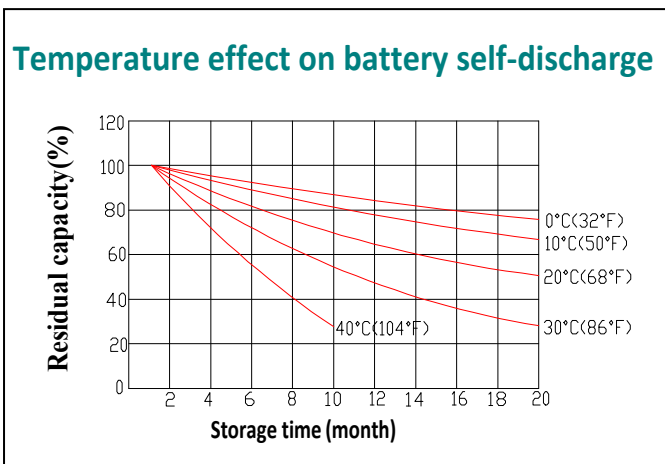
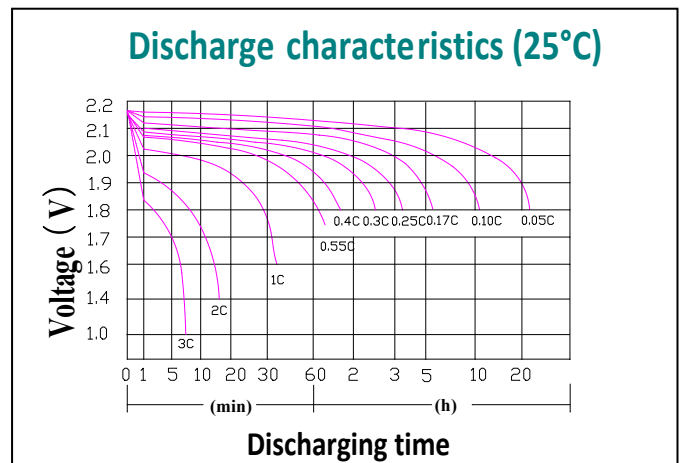
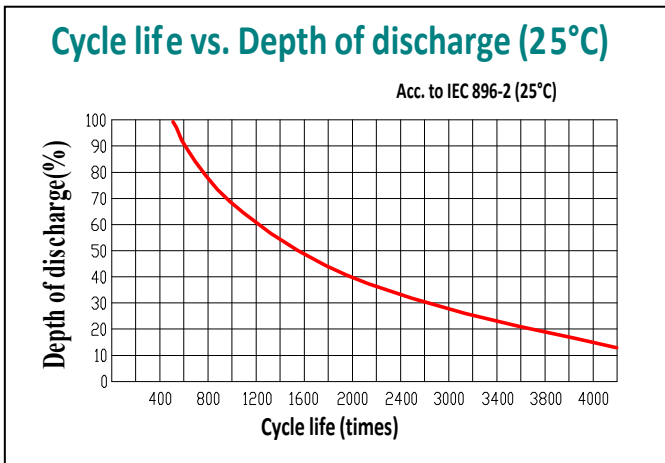
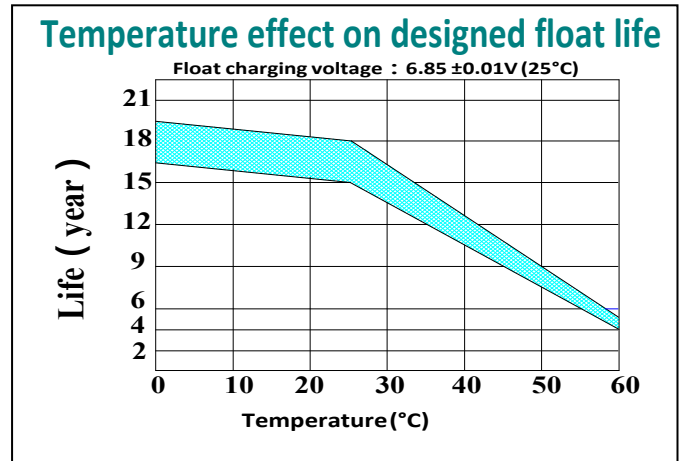
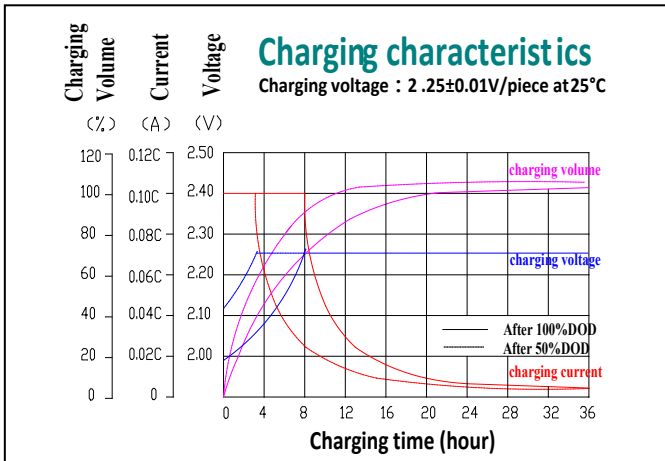
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	2689	1736	1440	953	709	582	371	265	180	119	105.9	56.1
1.65V	2640	1705	1414	936	696	572	364	260	177	116	104.0	55.1
1.70V	2591	1673	1388	918	684	561	357	255	173	114	102.0	54.1
1.75V	2543	1642	1361	901	671	551	350	250	170	112	100.1	53.1
1.80V	2445	1579	1309	866	645	529	337	241	164	108	96.3	51.0

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 **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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