

DEEP CYCLE GEL Battery

CG2-200

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	200Ah Capacity	GEL Technology	Durable Battery
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COMPLIED STANDARDS



GENERAL FEATURES

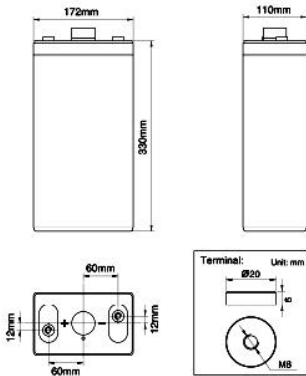
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	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 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	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)

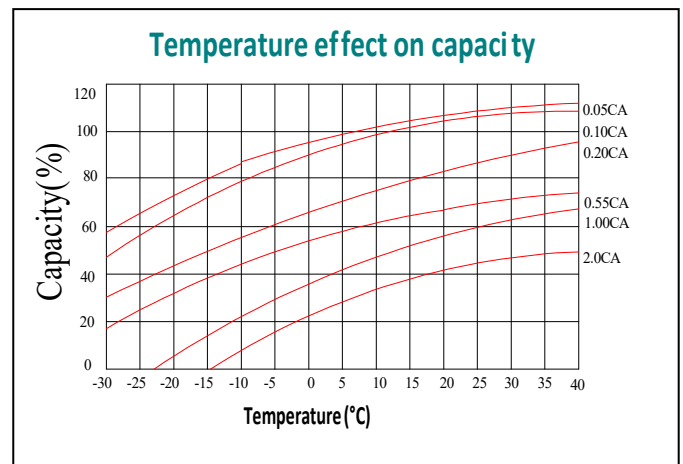
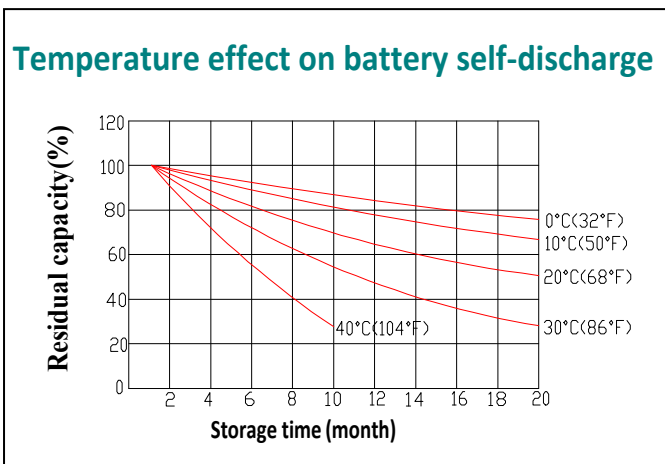
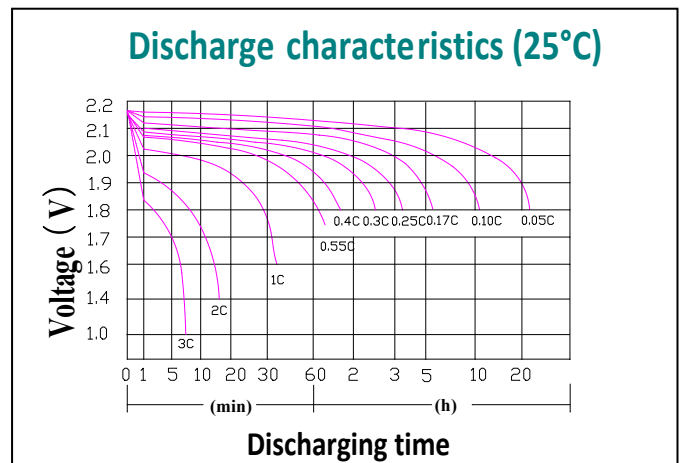
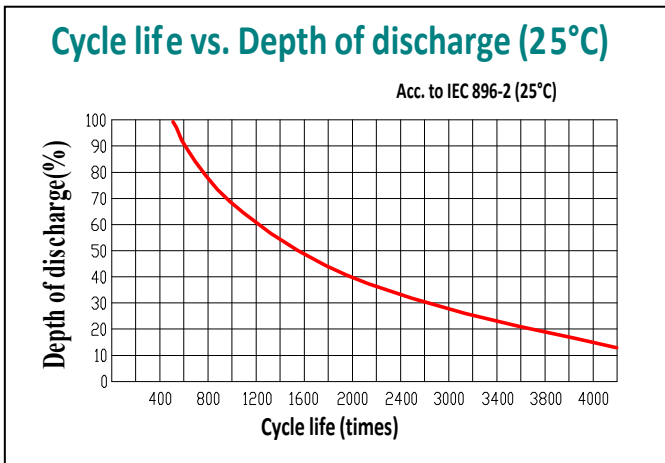
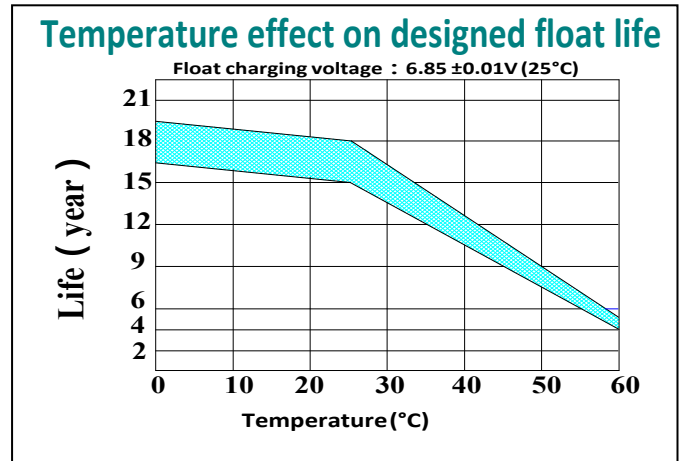
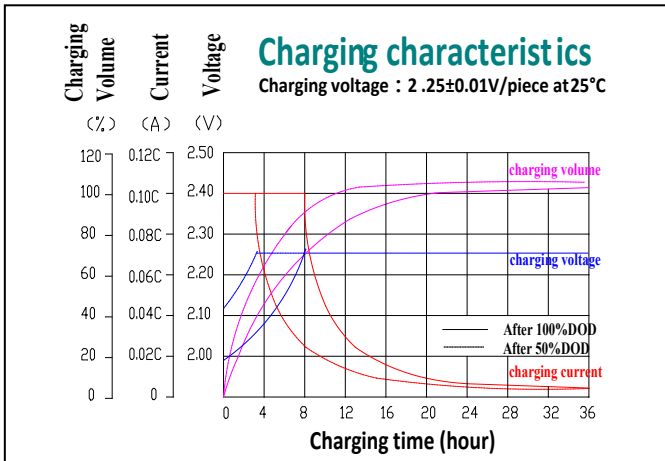
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1076	695	576	381	284	233	148	106	72	47	42.4	22.4
1.65V	1056	682	565	374	279	229	146	104	71	47	41.6	22.0
1.70V	1037	669	555	367	273	224	143	102	69	46	40.8	21.6
1.75V	1017	657	545	360	268	220	140	100	68	45	40.0	21.2
1.80V	978	631	524	347	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 **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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