

DEEP CYCLE GEL Battery

CG2-600

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	600Ah Capacity	GEL Technology	Durable Battery
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COMPLIED STANDARDS



GENERAL FEATURES

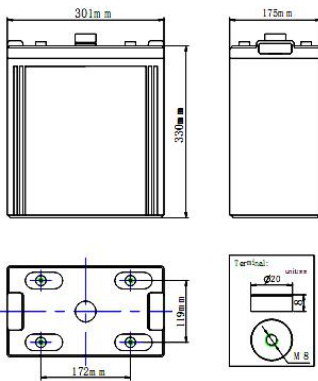
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	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 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	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)

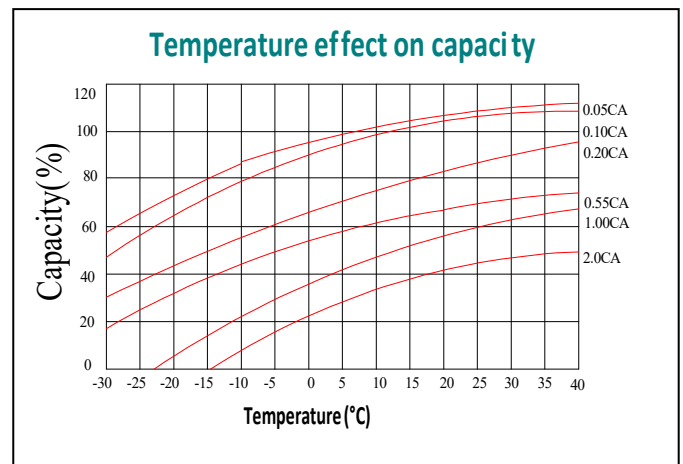
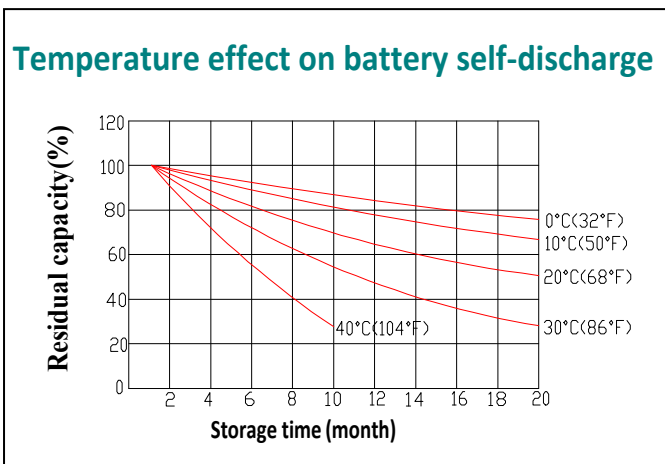
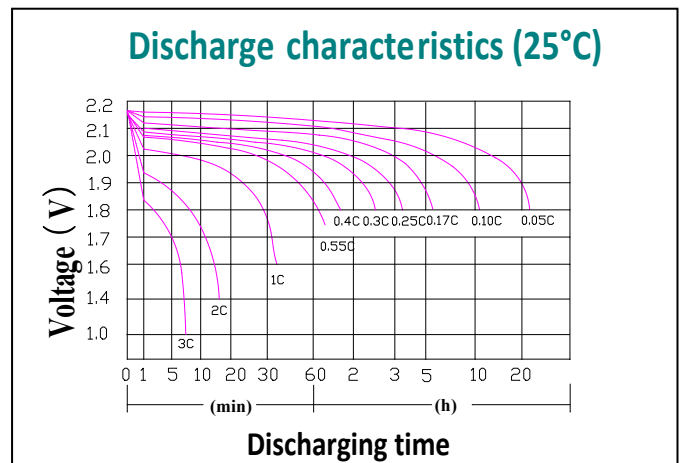
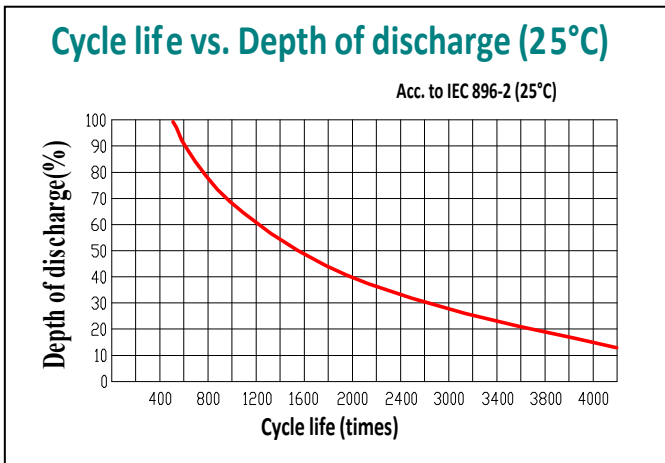
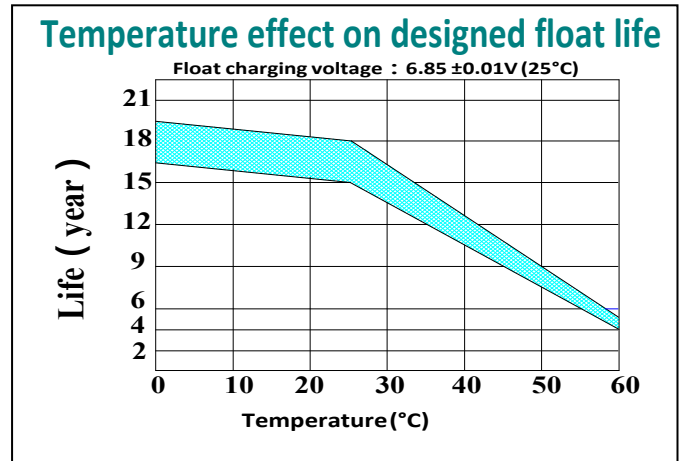
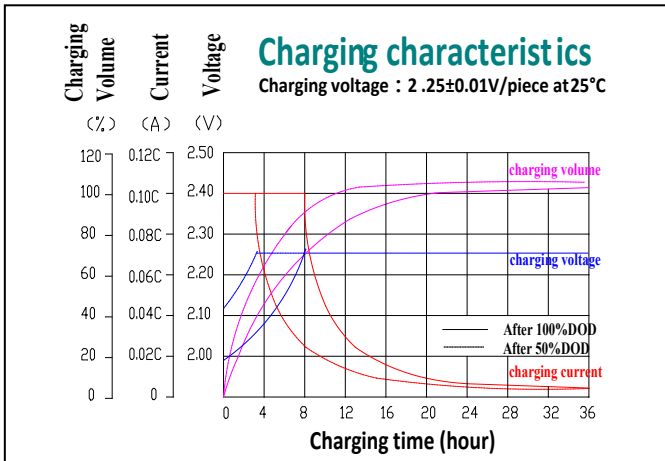
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	3227	2084	1728	1143	851	699	445	318	216	142	127.1	67.3
1.65V	3168	2046	1696	1123	836	686	437	312	212	140	124.7	66.1
1.70V	3110	2008	1665	1102	820	673	429	306	208	137	122.4	64.9
1.75V	3051	1970	1634	1081	805	661	420	300	204	135	120.1	63.7
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 **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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