

DEEP CYCLE GEL Battery

CG2-300

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	300Ah Capacity	GEL Technology	Durable Battery
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COMPLIED STANDARDS



GENERAL FEATURES

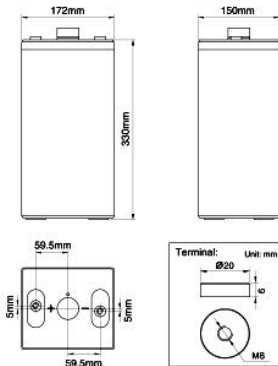
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

APPLICATIONS

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

DIMENSIONS & WEIGHT

Length(mm/inch)	173/6.81
Width(mm/inch)	150/5.9
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	19/42



TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C (10 hour rate@30.0A,1.8V)		300Ah
Capacity @25°C	20hour rate (15.9A,1.8V)	318Ah
	5 hour rate (53A,1.75V)	265Ah
	1 hour rate (182A,1.6V)	182Ah
Internal Resistance	Full Charged Battery@25°C	≤0.45mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		600A(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 45A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 45A Voltage 2.33-2.37V

BATTERY DISCHARGE TABLE

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	838	541	449	297	221	182	116	83	56	37	33.0	17.5
1.65V	823	531	441	292	217	178	113	81	55	36	32.4	17.2
1.70V	808	522	432	286	213	175	111	80	54	36	31.8	16.9
1.75V	792	512	424	281	209	172	109	78	53	35	31.2	16.5
1.80V	762	492	408	270	201	165	105	75	51	34	30.0	15.9

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

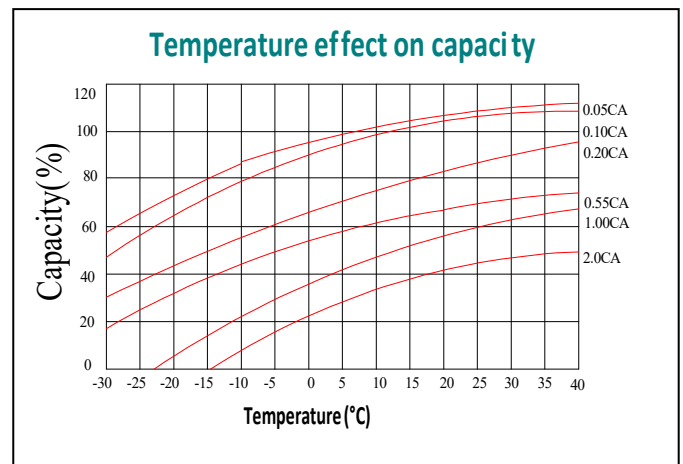
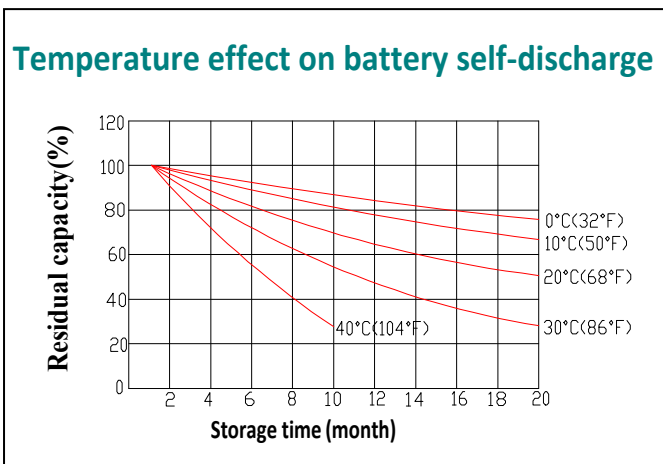
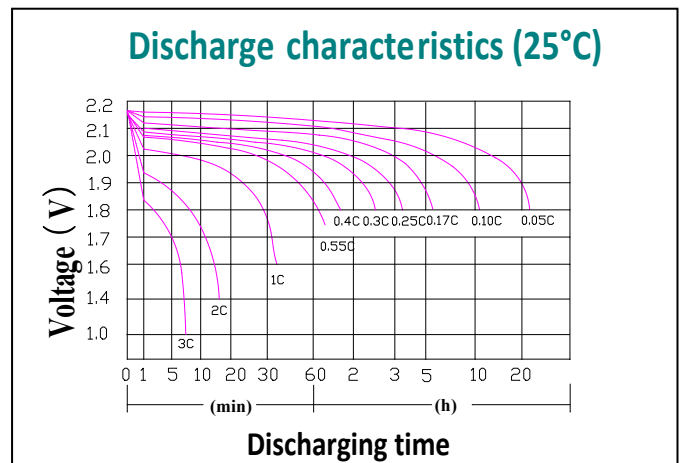
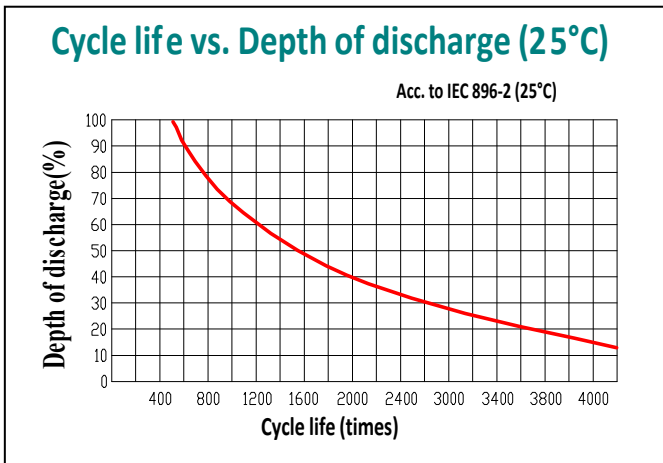
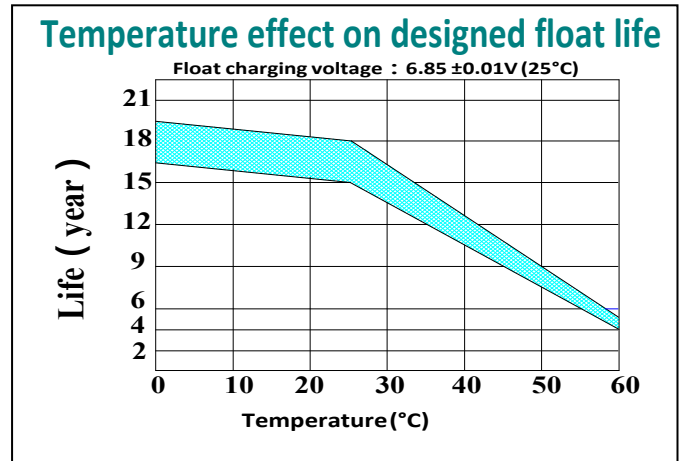
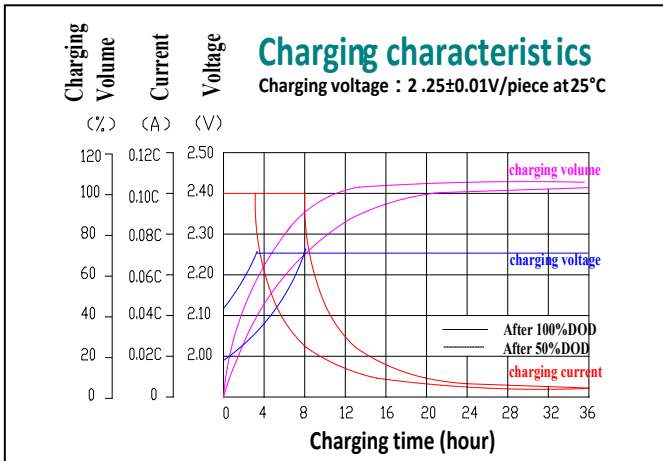
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1614	1042	864	572	426	349	222	159	108	71	63.5	33.7
1.65V	1584	1023	848	561	418	343	218	156	106	70	62.4	33.1
1.70V	1555	1004	833	551	410	337	214	153	104	69	61.2	32.4
1.75V	1526	985	817	541	402	330	210	150	102	67	60.1	31.8
1.80V	1467	947	785	520	387	318	202	144	98	65	57.8	30.6

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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