

# DEEP CYCLE GEL Battery

# CG2-1500

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.

<b>2V</b> Voltage	<b>1500Ah</b> Capacity	<b>GEL</b> Technology	<b>Durable</b> Battery
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### COMPLIED STANDARDS



### GENERAL FEATURES

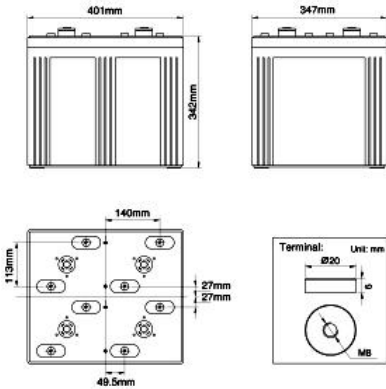
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

### APPLICATIONS

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

### DIMENSIONS & WEIGHT

Length(mm/inch)	401/15.8
Width(mm/inch)	351/13.8
Height(mm/inch)	342/13.5
Total Height(mm/inch)	378/14.9
Weight(kg/lbs)	97/214



### TECHNICAL SPECIFICATIONS

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@1500.0A,1.8V)		1500Ah
Capacity @25°C	20hour rate (79.5A,1.8V)	1590Ah
	5 hour rate (265A,1.75V)	1325Ah
	1 hour rate (908A,1.6V)	908Ah
Internal Resistance	Full Charged Battery@25°C	≤0.13mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		3000A(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 225A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 225A 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	4191	2706	2244	1485	1106	908	578	413	281	185	165.0	87.5
1.65V	4115	2657	2203	1458	1085	891	567	405	275	181	162.0	85.9
1.70V	4039	2608	2162	1431	1065	875	557	398	270	178	159.0	84.3
1.75V	3962	2558	2122	1404	1045	858	546	390	265	175	156.0	82.7
1.80V	3810	2460	2040	1350	1005	825	525	375	255	168	150.0	79.5

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

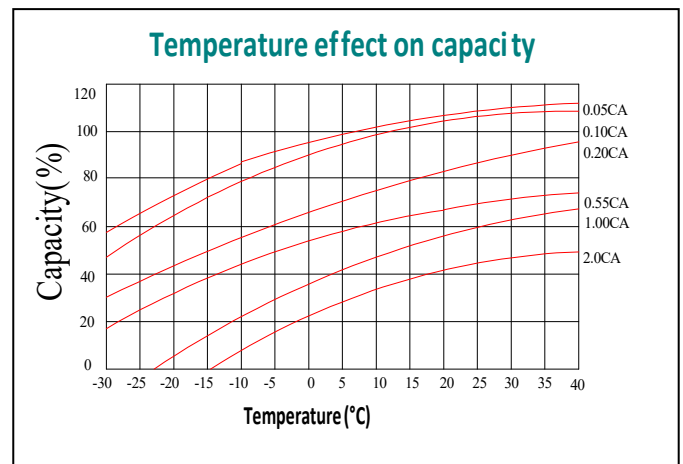
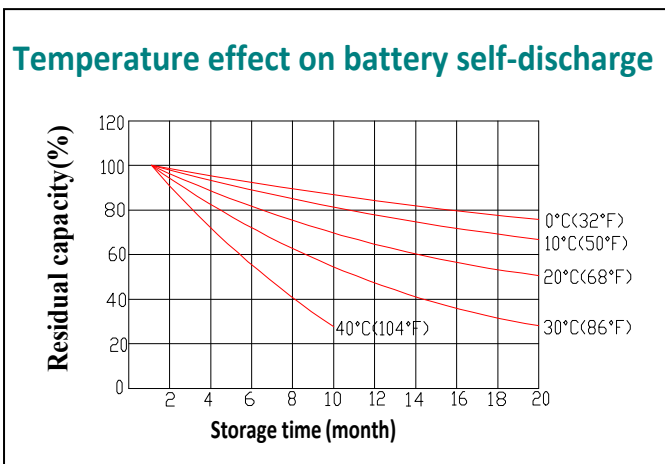
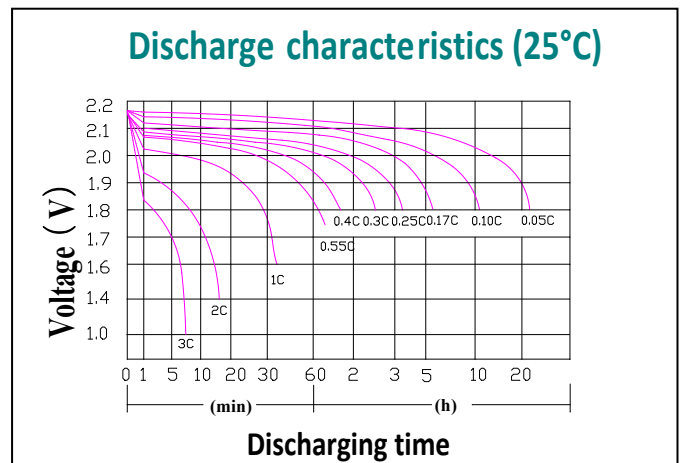
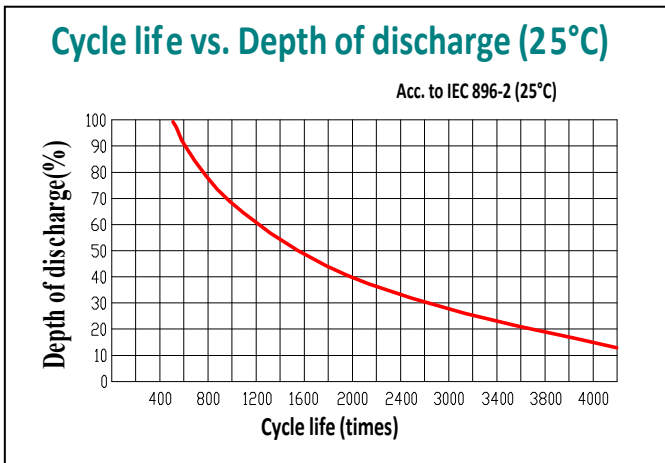
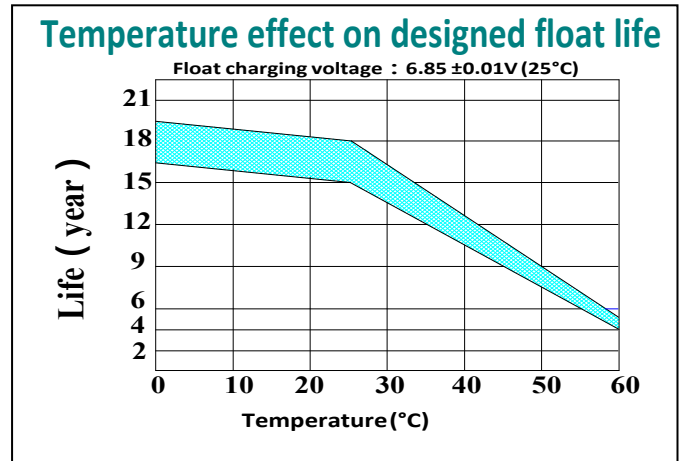
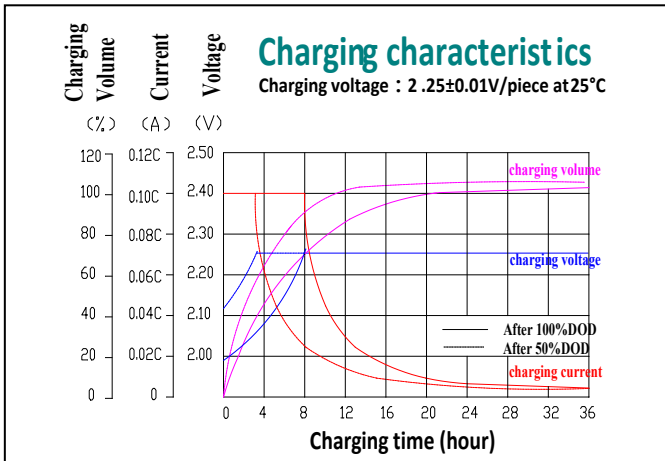
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	8068	5209	4320	2859	2128	1747	1112	794	540	356	317.6	168.3
1.65V	7921	5114	4241	2807	2089	1715	1091	780	530	349	311.9	165.3
1.70V	7774	5020	4163	2755	2051	1683	1071	765	520	343	306.1	162.2
1.75V	7628	4925	4084	2703	2012	1652	1051	751	511	336	300.3	159.2
1.80V	7334	4736	3927	2599	1935	1588	1011	722	491	323	288.8	153.0

**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	Fire resistance 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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