

Durable Battery *Choose* CSBattery



Valve Regulated Long Life GEL Battery

GB12-38G

CSBattery GBG series pure GEL battery is with 12-15 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, GBG series offers excellent recovery performance after deep discharge under frequent cyclic discharge use, and can deliver 1200 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.

12V 38Ah GEL Technology Long Life Battery



Applications

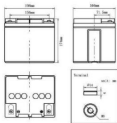
- Telecom Control Equipment
- UPS systems, inverter
- Power Equipment
- Solar & Wind
- Emergency Power Systems

General Features

- ✓ 20% more cyclic life through innovation at the PAM additives
- ✓ Long life expectancy of 15 years in floating condition
- ✓ Adopts quality silicon nano gel electrolyte
- ✓ Excellent deep discharge recovery capability
- ✓ Deep cycle performance: up to 1200 cycles@50%DOD

Dimensions & Weight

Length(mm/inch)	198/7.80
Width(mm/inch)	166/6.54
Height(mm/inch)	174/6.85
Total Height(mm/inch)	174/6.85
Weight(kg/lbs)(±5%)	12.8/28.2



Technical Specifications

Nominal Voltage		12V/cell per unit
Design floating life @25°C		12 years
Nominal Capacity @25°C(10 hour rate@3.80A,10.8V)		38Ah
Capacity @25°C	20hour rate (2.11A,10.8V)	42.2Ah
	5 hour rate (6.94A,10.5V)	34.5Ah
	1 hour rate (23.3A,9.6V)	25.3Ah
Internal Resistance		Full Charged Battery@25°C
Discharge		-20°C~60°C
Ambient Temperature	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max. Discharge Current@25°C		278A(1h)
Capacity affected by Temperature (10 hours)	40°C	100%
	25°C	100%
	0°C	85%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 9.5A Voltage 13.6~13.8V
	Cycle Use	Initial Charging Current Less than 9.5A Voltage 14.4~14.6V

Battery Discharge Table

FV/Time	Discharge Constant Current per Cell (Amperes at 25°C)									
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	46.2	39.9	38.6	25.3	15.4	11.3	7.3	4.4	3.95	2.19
1.65V	61.4	38.9	27.9	24.6	15.1	11.1	7.1	4.4	3.91	2.17
1.70V	58.8	37.8	27.1	23.9	14.8	10.9	7.0	4.3	3.88	2.15
1.75V	56.1	36.7	26.3	23.2	14.5	10.6	6.9	4.3	3.84	2.13
1.80V	53.3	35.6	25.6	22.6	14.1	10.3	6.8	4.3	3.80	2.11

FV/Time	Discharge Constant Power per Cell (Watts at 25°C)									
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	119.7	74.6	69.4	47.1	28.7	21.0	13.5	8.3	7.4	4.1
1.65V	114.7	72.5	52.0	45.9	28.2	20.6	13.3	8.2	7.3	4.1
1.70V	109.7	70.5	50.6	44.6	27.7	20.2	13.1	8.1	7.2	4.0
1.75V	104.7	68.5	49.1	43.4	27.0	19.8	12.9	8.0	7.2	4.0
1.80V	99.7	66.5	47.7	42.1	26.4	19.3	12.8	7.9	7.1	3.9

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery design/specifications are subject to modification without notice. Contact: CSBattery for the latest information.

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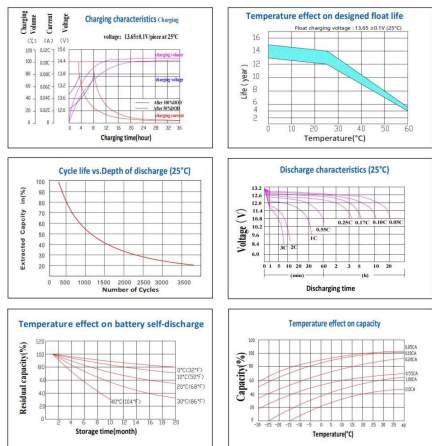
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Performance Characteristics



Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Si-lead Cu grid with special paste	Pb-Cu grid for improved recombination efficiency	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert MR	Advanced PVC/AGM separator for high pressure cell design	Silicon Gel	Two layers epoxy resin seal

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