



VISION GROUP
Shenzhen Center Power
Tech.Co.Ltd.,

CG2-500V

2V 500Ah(10hr)

Overview

Gel battery shows some distinctive advantages over flooded battery or AGM battery, such as super thermal stability, high deep discharge capability, good recovery from deep discharge, even if the battery is left discharged for three days, it will recover to 100% of capacity. With the above-mentioned advantages, the gel battery has long service life, specially suitable for motive power applications, such as golf trailer, srubber, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PE	Gelled acid

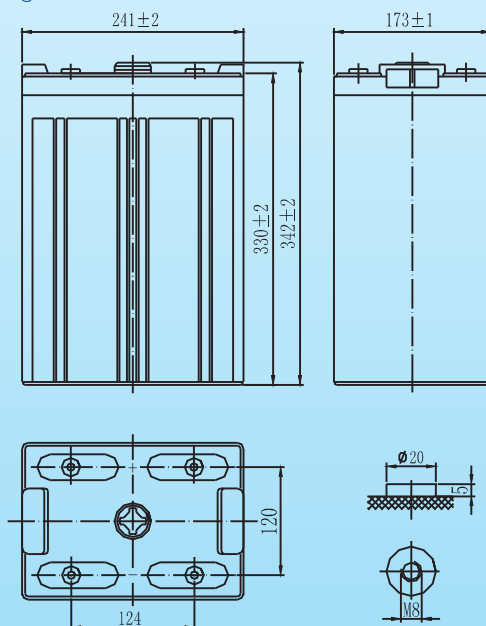
General Features

- Nanometer SiO₂ and H₂SO₄ gelled electrolyte technology for efficiency gas recombination of up to 99% and freedom from electrolyte maintenance or water adding
- Not restricted for air transport—complies with IATA/ICAO Special Provision A67.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame retardant ABS.

Dimensions and Weight

Length(mm / inch)	242/9.53
Width(mm / inch)	173/6.81
Height(mm / inch)	330/13.0
Total Height(mm / inch)	365/14.4
Approx. Weight(Kg / lbs)	31.2/68.8

* Weight deviation: ± 5%



Total height with removable cover: 365

Battery Specification

Performance Characteristics	
Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
10 hour rate (50.0A, 1.8V)	500Ah
5 hour rate (87A, 1.8V)	435Ah
1 hour rate (282A, 1.8V)	282Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤0.50mOhms
Self-Discharge	
2% of capacity declined per month at 25°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	2500A(5s)
Short Circuit Current)	6000A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.33-2.45VPC
Maximum charging current	125A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

End Point									
Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h	
1.60V	1050	860	500	320	130	95.0	52.5	28.0	
1.65V	990	800	490	310	129	93.0	52.0	27.5	
1.70V	930	760	480	300	128	91.0	51.0	27.0	
1.75V	870	700	470	290	127	89.0	50.5	26.8	
1.80V	810	640	450	282	126	87.0	50.0	26.3	

Discharge Constant Power (Watts at 77°F25°C)

End Point									
Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h	
1.60V	1798	1459	936	580	243	182	102	55.1	
1.65V	1711	1446	894	552	231	172	92.4	51.9	
1.70V	1667	1386	852	529	219	164	90.6	49.7	
1.75V	1587	1299	827	511	208	161	87.3	47.9	
1.80V	1503	1229	792	488	196	150	81.6	46.2	

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.



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