

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	Fiberglass	Gelled acid

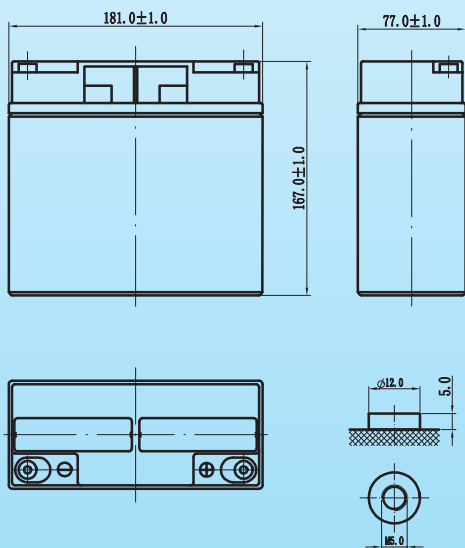
General Features

- Absorbent Glass Mat (AGM) technology for efficient 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.
- UL-recognized component.
- 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.

Dimensions and Weight

Length(mm / inch)	181/7.13
Width(mm / inch)	77 / 3.03
Height(mm / inch)	167/ 6.57
Total Height(mm / inch)	167/ 6.57
Approx. Weight(Kg / lbs)	5.5/ 12.1

* Weight deviation: ± 5%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	5years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.85A, 10.5V)	17Ah
10 hour rate (1.68A, 10.5V)	16.8Ah
5 hour rate (3.01A, 10.5V)	15.05Ah
1 hour rate (12A, 9.6V)	12Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤ 16mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	
255A(5s)	
Short circuit Current	
850A	
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40~2.45VPC
Maximum charging current	6.8A
Temperature compensation	-30mV/°C
Standby use	2.20~2.30VPC
Temperature compensation	-20mV/°C

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

End Point										
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h	
1.60V	67.0	45.1	34.3	20.2	12.0	4.65	3.10	1.70	0.89	
1.65V	64.6	44.0	33.5	19.8	11.8	4.57	3.05	1.68	0.88	
1.70V	62.2	42.9	32.6	19.3	11.6	4.49	3.00	1.65	0.87	
1.75V	59.8	41.7	31.8	18.9	11.3	4.40	2.94	1.63	0.85	
1.80V	57.4	40.6	30.9	18.4	11.1	4.32	2.89	1.60	0.84	

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

End Point									
Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	117	79.0	61.0	36.0	27.4	22.0	13.1	9.10	6.16
1.65V	113	77.4	59.8	35.5	27.1	21.8	13.0	9.01	6.10
1.70V	110	75.8	58.5	35.0	26.7	21.5	12.8	8.92	6.04
1.75V	106	74.1	57.3	34.5	26.4	21.3	12.7	8.83	5.98
1.80V	102	72.5	56.0	34.0	26.0	21.0	12.5	8.74	5.92

(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.



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

CG12-17XA

12V 17Ah(20hr)

