

JB-G12-075 12V75Ah

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	Pb	Fiberglass	Gelled acid

General Features

- Micro millimeter 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.

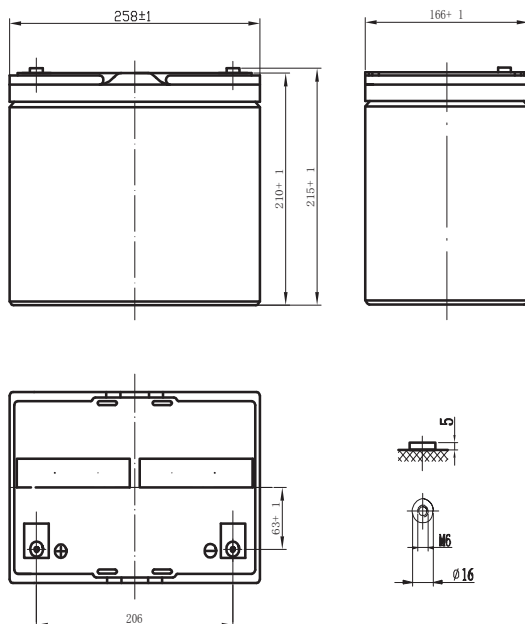
Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Nominal Capacity 77°F(25°C)	
20 hour rate (3.90A, 10.5V)	78.0Ah
10 hour rate (7.50A, 10.8V)	75.0Ah
5 hour rate (13.6A, 10.5V)	68.0Ah
1 hour rate (51.2A, 9.6V)	51.2Ah
Internal Resistance	
Fully Charged battery 77 °F(25°C)	≤6 .6mOhms
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)	700A(5s)
Short Circuit Current	1800A

Dimensions and Weight

Length(mm / inch)	258/ 10.1
Width(mm / inch)	166/ 6.53
Height(mm / inch)	210 /8.26
Total Height(mm / inch)	215 /8.46
Approx. Weight(Kg / lbs)	24/52.9

* Weight deviation: 3%



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

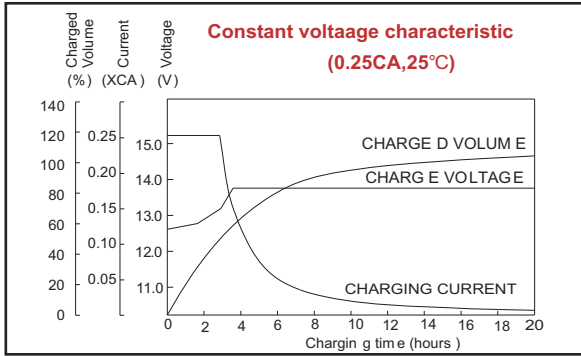
End Point												
Volts/Cell	5min	10min	15min	30min	35min	45min	50min	1h	3h	5h	8h	10h
1.60V	245	182	140	83.4	74.7	62.9	58.2	51.2	22.1	14.4	9.38	7.67
1.65V	226	172	134	79.9	70.3	57.5	53.9	48.5	21.7	14.2	9.31	7.65
1.70V	210	161	124	78.5	69.0	56.1	52.8	47.8	21.3	14.0	9.23	7.60
1.75V	199	154	119	75.1	67.2	54.8	51.3	46.2	20.9	13.6	9.09	7.55
1.80V	184	142	114	74.6	65.9	54.4	50.3	44.3	20.1	13.4	8.99	7.50

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

End Point												
Volts/Cell	5min	10min	15min	30min	35min	45min	50min	1h	3h	5h	8h	10h
1.60V	421	320	251	161	145	122	112.2	97.6	41.0	27.3	18.4	15.4
1.65V	411	306	246	156	141	120	110.2	95.5	40.0	27.1	18.1	15.0
1.70V	383	296	242	148	134	113	105.1	91.6	39.7	26.5	17.6	14.7
1.75V	363	279	227	145	132	113	103.0	88.2	39.1	26.5	17.5	14.5
1.80V	348	266	216	144	129	108	99.5	85.9	38.8	26.3	17.1	14.1

(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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CHARGING METHODS: Constant voltage charging at 25 °C

Standby use: No charging current limit is required

Charging voltage:	2.20~2.30VPC
Cyclic use: Maximum charging current: 30% of rated capacity	
Charging voltage:	2.40~2.45VPC
Temperature compensation :	
stand by	- 20mV/°C
cyclic use	-30mV/°C

