

SG2-1500 2V 1500Ah(10hr)

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, forklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

Battery Construction

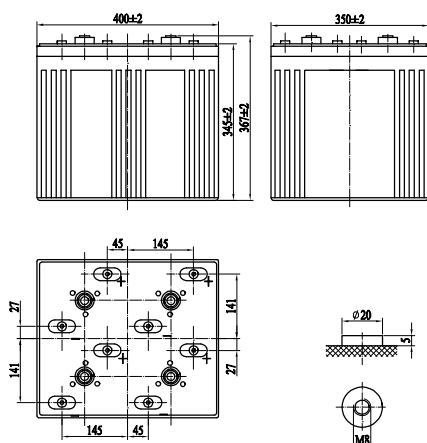
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PVC	Gelled acid

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.
- 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.
- Case and cover available in both standard and flame retardant ABS.

Dimensions and Weight

Length(mm / inch)..... 400 / 15.75
 Width(mm / inch)..... 350 / 13.78
 Height(mm / inch)..... 345 / 13.58
 Total Height(mm / inch)..... 382 / 15.04
 Approx. Weight(Kg / lbs)..... 105 / 231.6



Total height with removeable cover: 382

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
10 hour rate (150A, 1.80V)	1500Ah
5 hour rate (264A, 1.75V)	1320Ah
1 hour rate (930A, 1.60V)	930Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	0.4mOhms
Self-Discharge	
2% 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)	3400A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use Charge Voltage:	2.40V-2.45V
Maximum charging current	300A
Temperature compensation	-5mV/°C
Standby use	2.25V-2.30V
No charge current limit is required	
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	3150	2580	1500	930	390	285	158	84.0
1.65V	2970	2400	1470	900	380	276	156	82.5
1.70V	2790	2280	1440	870	370	270	153	81.0
1.75V	2610	2100	1410	840	365	264	152	80.3
1.80V	2430	1920	1350	795	350	255	150	78.8

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

End point volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	5393	4376	2808	1741	730	547	305	165
1.65V	5132	4339	2681	1656	693	517	277	156
1.70V	5000	4159	2557	1587	657	492	272	149
1.75V	4761	3898	2482	1532	625	482	262	144
1.80V	4510	3686	2376	1463	588	449	245	139

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

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