

# SG2-800 2V 800Ah(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, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

## Battery Caonstruction

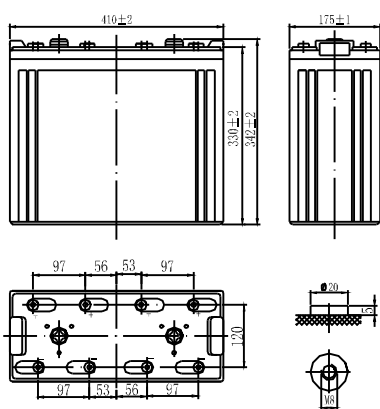
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PVC	Gelled acid

## General Features

- Nanometer SiO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> 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 restardant ABS.

## Dimensions and Weight

Length(mm / inch) ..... 410 / 16.1  
 Width(mm / inch) ..... 175 / 6.89  
 Height(mm / inch) ..... 330 / 13.0  
 Total Height(mm / inch) ..... 367 / 14.5  
 Approx. Weight(Kg / lbs) ..... 53.5 / 118



Total height with removeable cover: 367

## Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
10 hour rate (80.0A, 1.80V)	800Ah
5 hour rate (141A, 1.75V)	705Ah
1 hour rate (496A, 1.6V)	496Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	0.55mOhms
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)	2500A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use Charge Voltage:	2.40V-2.45V
Maximum charging current	160A
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	1680	1376	800	496	208	152	84.0	44.8
1.65V	1584	1280	784	480	203	147	83.2	44.0
1.70V	1488	1216	768	464	197	144	81.6	43.2
1.75V	1392	1120	752	448	195	141	80.8	42.8
1.80V	1296	1024	720	424	187	136	80.0	42.0

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

End point volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	2876	2334	1498	929	389	292	163	88.2
1.65V	2737	2314	1430	883	370	276	148	83.1
1.70V	2666	2218	1364	846	350	263	145	79.5
1.75V	2539	2079	1324	817	333	257	140	76.7
1.80V	2405	1966	1267	780	314	239	131	73.9

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

# SG2-800 2V800Ah

