

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

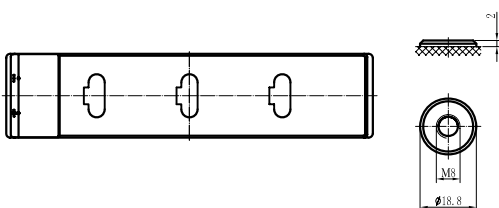
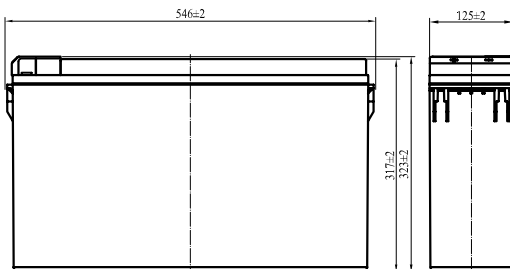
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PE	Gelled acid

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)	546 / 21.5
Width(mm / inch)	125 / 4.92
Height(mm / inch)	317 / 12.5
Total Height(mm / inch)	323 / 12.7
Approx. Weight(Kg / lbs)	51.5 / 113.6
* Weight deviation: ± 3%	



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
10 hour rate (15.0A, 10.8V)	150Ah
5 hour rate (26.4A, 10.5V)	132Ah
1 hour rate (104A, 9.6V)	104Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	5.8mOhms
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)	1000A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use Charge Voltage:	2.40-2.45VPC
Maximum charging current	45A
Temperature compensation	-30mV/°C
Standby use	2.27-2.30VPC
No charge current limit is required	
Temperature compensation	-20mV/°C

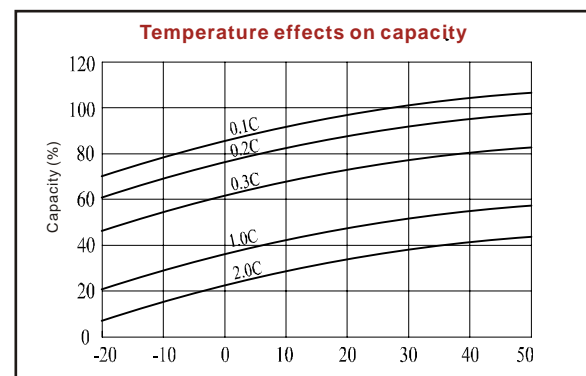
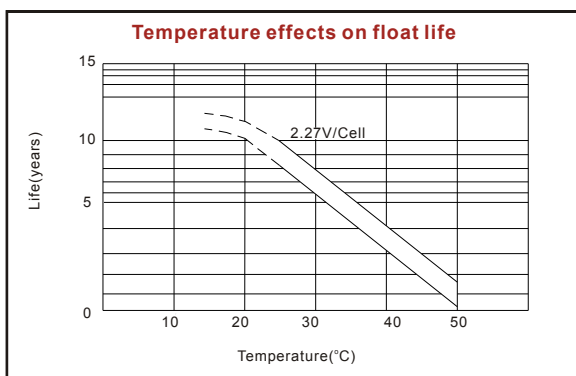
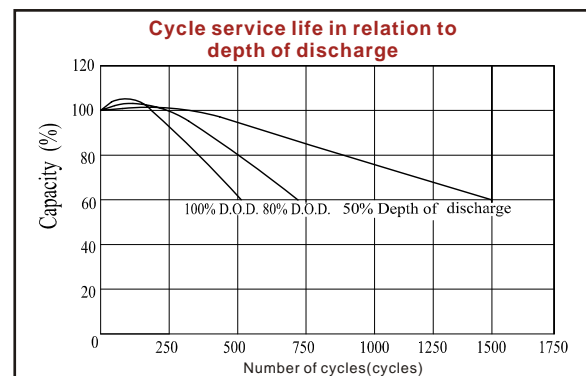
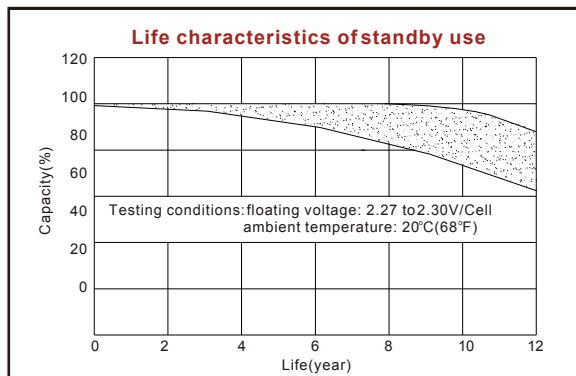
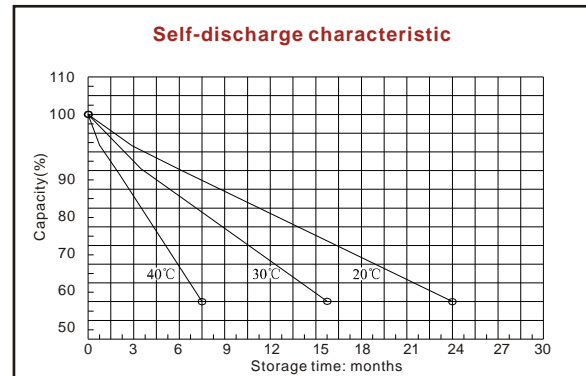
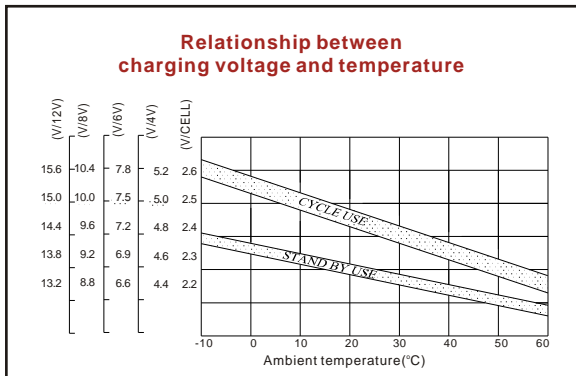
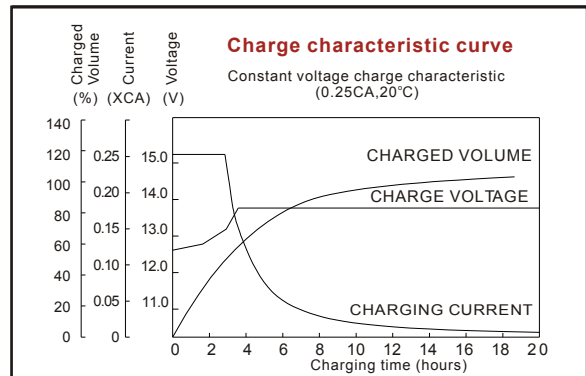
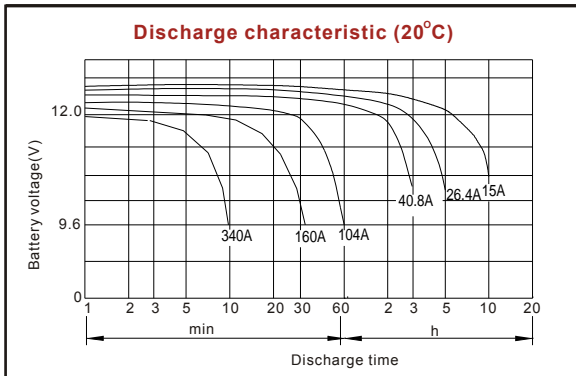
Discharge Constant Current (Amperes at 77°F25°C)

End point volts/cell	10min	15min	30min	1h	3h	5h	10h
1.60V	340	280	165	104	42.6	27.2	16.3
1.65V	325	270	162	102	42.1	27.0	16.3
1.70V	308	259	158	99.8	41.5	26.7	16.2
1.75V	290	247	154	97.4	40.8	26.4	15.6
1.80V	270	234	149	95.0	40.0	26.0	15.0

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

End point volts/cell	10min	15min	30min	1h	3h	5h	10h
1.60V	520	450	310	200	80.0	55.0	31.0
1.65V	496	435	305	196	79.2	54.6	30.8
1.70V	470	420	300	191	78.3	54.2	30.6
1.75V	443	404	294	185	77.4	53.6	30.4
1.80V	415	387	286	178	76.2	53.0	30.2

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








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