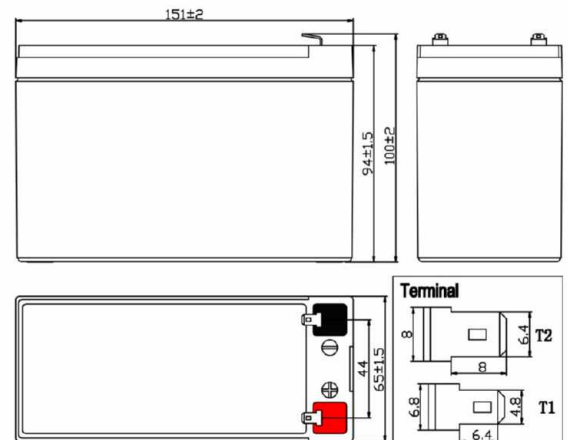


## Specification

Nominal Voltage (V)	12V (6 cells in series)	
Rated Capacity	9.0Ah	(C <sub>20</sub> , 1.75V/cell)
Dimensions(mm)	Length	151 ± 2 mm
	Width	65 ± 1.5 mm
	Height	94 ± 1.5 mm
	Total Height	100 ± 2 mm
Nominal Capacity @25°C (Ah)	20 Hour rate (0.455A to 10.5 volts)	9.10Ah
	10 Hour rate (0.869A to 10.5 volts)	8.69Ah
	5 Hour rate (1.553A to 10.5 volts)	7.76Ah
	1 Hour rate (5.850A to 9.6 volts)	5.85Ah
	15 min rate (17.33A to 9.6 volts)	4.33Ah
Approx. Weight	2.6 kg	
Terminal	T1/T2	
Max. Discharge Current	135A @25°C (5s)	
Internal Resistance	18mΩ @25°C (Full Charged Battery)	
Floating Design Life	5 years @25°C	
Ambient Temperature	Charge: -15°C~50°C	
	Discharge: -20°C~60°C	
	Storage: -20°C~50°C	
Container Material	A.B.S , UL94-HB , UL94-V0 , Optional	
Self Discharge	VRLA batteries can be stored for more than 6 months at 25°C. Self-Discharge ratio less than 3% per month at 25°C. Please charge batteries before using.	



## Certification



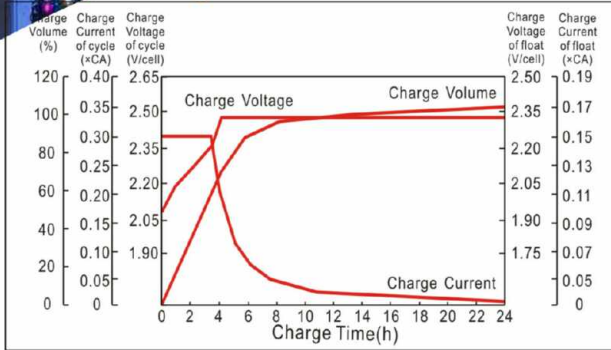
## Constant Current Discharge Characteristics (A), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	35.51	23.27	17.33	9.225	5.850	3.296	2.354	1.588	1.051	0.900	0.482
1.70V/cell	32.22	21.56	16.34	8.955	5.720	3.245	2.295	1.564	1.035	0.878	0.464
1.75V/cell	28.94	20.21	15.44	8.685	5.648	3.218	2.273	1.553	1.026	0.869	0.455
1.80V/cell	25.97	18.90	14.54	8.415	5.567	3.191	2.246	1.535	1.013	0.855	0.437

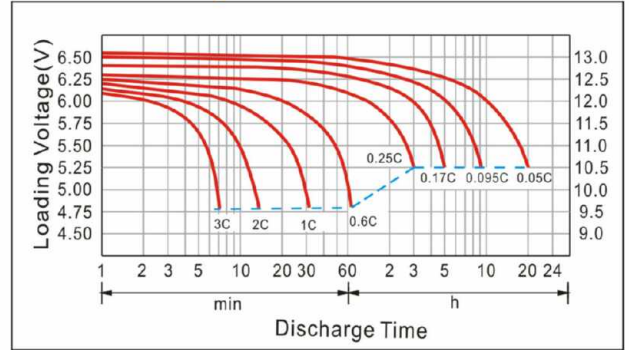
## Constant Wattage Discharge Characteristics (Watt), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	64.20	42.46	31.91	17.60	11.60	6.537	4.691	3.167	2.097	1.797	0.963
1.70V/cell	59.34	40.06	30.63	17.24	11.39	6.462	4.582	3.123	2.067	1.755	0.930
1.75V/cell	54.01	38.22	29.20	16.86	11.26	6.414	4.541	3.102	2.050	1.738	0.913
1.80V/cell	48.90	36.07	27.74	16.48	11.11	6.365	4.491	3.069	2.025	1.711	0.877

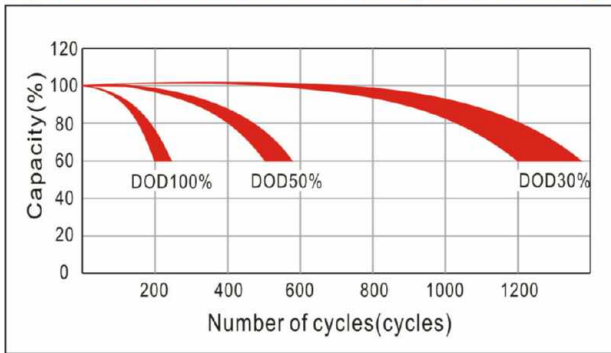
### Charge Characteristics Curve



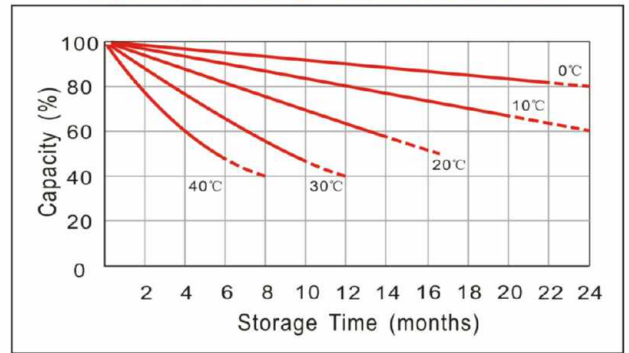
### Discharge Characteristics Curve



### Cycle service life in relation to depth of discharge



### Capacity Storage Characteristics



### Capacity Factors with Different Temperature

Battery type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

## Maintenance & Cautions

#### ☑ Charging Procedure:

Application	Charging method	Charge voltage at 25°C	Temperature compensation coefficient of charging voltage	Max.charging current	Temperature
For standby power source	Constant voltage charging (With current restriction)	2.25~2.30 V/cell	-3mV/°C/cell	0.2CA	-15~50°C
For cycle service		2.45~2.50 V/cell	-4mV/°C/cell	0.3CA	

- ☑ Every month, recommend inspection every battery voltage.
- ☑ Every three months, recommend equalization charge for one time. **Equalization charge method:**  
 Step 1: Discharge: 100% rate capacity discharge.  
 Step 2: Charge: Max. Current 0.3CA, constant voltage 2.45~2.50V/Cell charge 24h.
- ☑ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, Ambient temperature and charging voltage.
- ☑ Charge the batteries at least once every six months, if they are stored at 25°C. **Charging Method:**  
 Constant Voltage :  $-0.2C \times 2h + 2.4 \sim 2.45V/cell \times 24h$  , Max. Current 0.25CA  
 Constant Current :  $-0.2C \times 2h + 0.1C \times 12h$   
 Fast :  $-0.2C \times 2h + 0.3C \times 4h$

#### ☑ Terminal of torque:

Bolt	M5	M6	M8
Terminal	T3、T10	T4、T7、T11、T12、T13	T5、T6、T8、T9、T14
Torque	6~7N.m	8~10N.m	10~12N.m