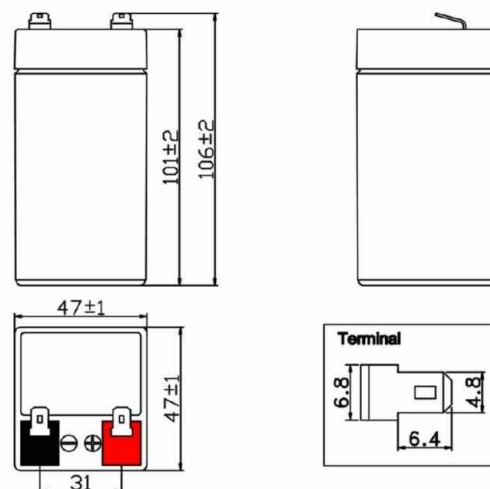


Specification

Nominal Voltage (V)	4V (2 cells in series)	
Rated Capacity	4.5Ah	(C ₂₀ , 1.75V/cell)
Dimensions(mm)	Length	47 ± 1 mm
	Width	47 ± 1 mm
	Height	101 ± 2 mm
	Total Height	106 ± 2 mm
Nominal Capacity @25°C (Ah)	20 Hour rate (0.227A to 3.50 volts)	4.54Ah
	10 Hour rate (0.434A to 3.50 volts)	4.34Ah
	5 Hour rate (0.776A to 3.50 volts)	3.88Ah
	1 Hour rate (2.925A to 3.20 volts)	2.92Ah
	15 min rate (8.663A to 3.20 volts)	2.16Ah
Approx. Weight	0.46 kg	
Terminal	T1	
Max.Discharge Current	67.5A @25°C (5s)	
Internal Resistance	15mΩ @25°C (Full Charged Battery)	
Floating Design Life	5 years @25°C	
Ambient Temperature	Charge: -15°C~50°C	
	Discharge: -20°C~60°C	
Container Material	Storage: -20°C~50°C	
	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



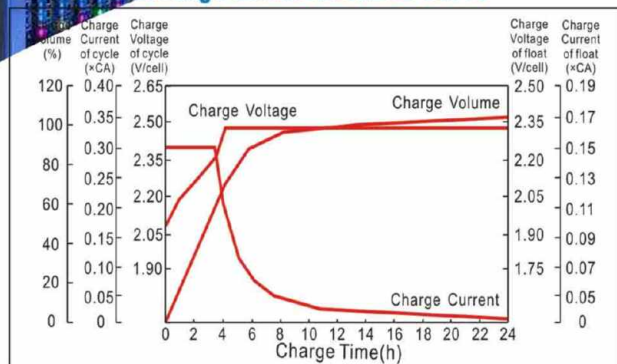
Constant Current Discharge Characteristics (A), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	17.75	11.63	8.663	4.613	2.925	1.648	1.177	0.794	0.526	0.450	0.241
1.70V/cell	16.11	10.78	8.168	4.478	2.860	1.622	1.148	0.782	0.518	0.439	0.232
1.75V/cell	14.47	10.10	7.718	4.343	2.824	1.609	1.136	0.776	0.513	0.434	0.227
1.80V/cell	12.98	9.450	7.268	4.208	2.783	1.595	1.123	0.767	0.506	0.428	0.218

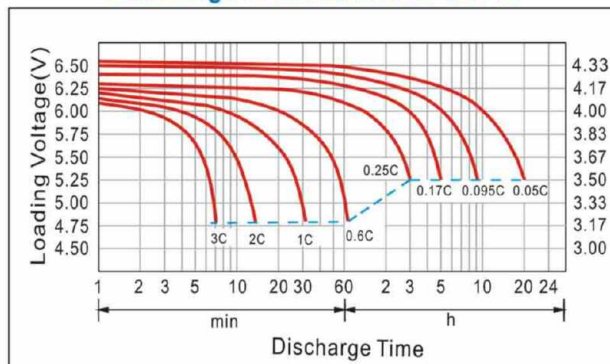
Constant Wattage Discharge Characteristics (Watt), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	32.10	21.23	15.95	8.802	5.801	3.268	2.346	1.584	1.049	0.899	0.482
1.70V/cell	29.67	20.03	15.31	8.619	5.696	3.231	2.291	1.562	1.033	0.878	0.465
1.75V/cell	27.01	19.11	14.60	8.432	5.629	3.207	2.271	1.551	1.025	0.869	0.456
1.80V/cell	24.45	18.03	13.87	8.240	5.553	3.183	2.246	1.535	1.013	0.856	0.438

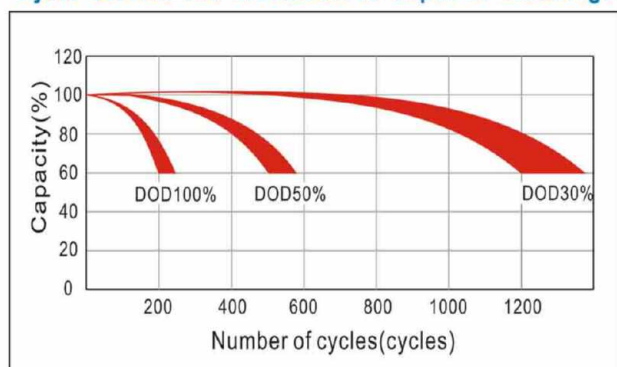
Charge Characteristics Curve



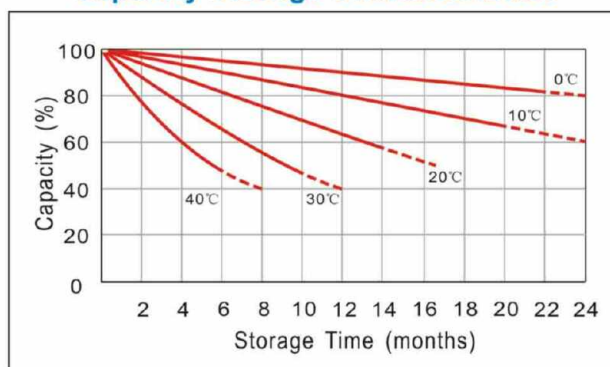
Discharge Characteristics Curve



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%

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