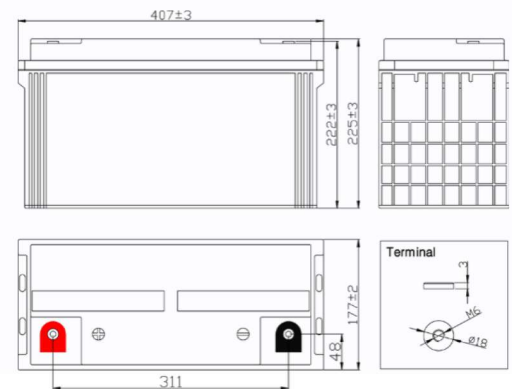


## SPECIFICATION

<b>Nominal Voltage</b>	12V (6 cells in series)	
<b>Rated Capacity</b>	120.0Ah	(C <sub>10</sub> , 1.80V/cell)
<b>Dimensions(mm)</b>	Length	407 ± 3 mm
	Width	177 ± 2 mm
	Height	222 ± 3 mm
	Total Height	225 ± 3 mm
<b>Nominal Capacity @25°C (Ah)</b>	20 Hour rate (6.540A to 10.8 volts)	130.8Ah
	10 Hour rate (12.24A to 10.8 volts)	122.4Ah
	5 Hour rate (21.00A to 10.8 volts)	105.0Ah
	1 Hour rate (75.96A to 10.5 volts)	75.9Ah
<b>Approx. Weight</b>	35 kg	
<b>Terminal</b>	T13	
<b>Max.Discharge Current</b>	960A @25°C (5s)	
<b>Internal Resistance</b>	4.0mΩ @25°C (Full Charged Battery)	
<b>DOD 80%</b>	≥500 Cycles @25°C	
<b>Ambient Temperature</b>	Charge:	-20°C~50°C
	Discharge:	-40°C~60°C
	Storage:	-20°C~60°C
<b>Container Material</b>	A.B.S, UL94-HB, UL94-V0, Optional	
<b>Self Discharge</b>	Deep Cycle Gel Battery 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.	



## COMPANY CERTIFICATION



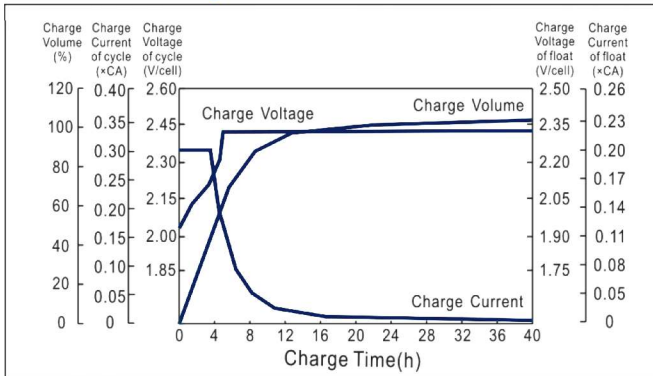
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A). (25°C)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	408.0	271.8	217.7	135.0	78.00	46.62	33.12	22.18	14.90	12.72	6.960
1.70V/cell	366.0	250.2	207.0	131.4	76.92	46.02	32.52	21.65	14.66	12.54	6.780
1.75V/cell	330.0	231.0	197.4	127.8	75.96	45.42	32.16	21.32	14.52	12.42	6.660
1.80V/cell	294.0	210.6	185.4	122.9	74.40	44.80	31.80	21.00	14.30	12.24	6.540

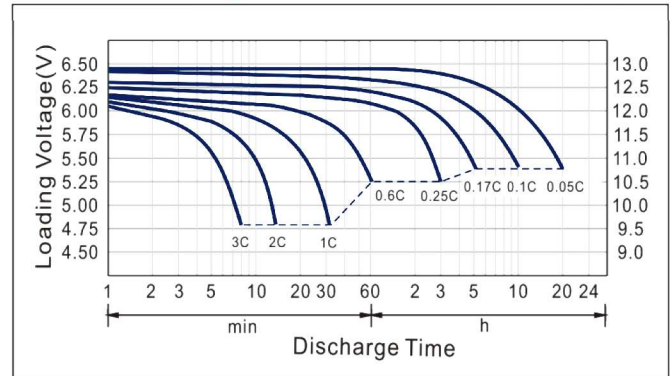
## CONSTANT WATTAGE DISCHARGE CHARACTERISTICS (WATT). (25°C)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	703.8	484.7	395.5	252.0	149.5	90.91	65.69	44.09	29.66	25.33	13.91
1.70V/cell	646.6	454.5	381.2	247.5	148.1	90.12	64.66	43.15	29.25	25.04	13.56
1.75V/cell	591.3	425.4	366.8	242.8	146.9	89.33	64.11	42.61	29.04	24.84	13.32
1.80V/cell	534.1	393.1	347.6	235.5	144.5	88.85	63.55	42.00	28.61	24.48	13.08

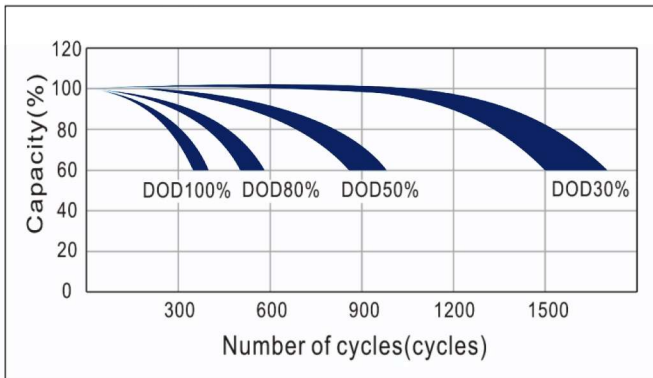
### Charge Characteristics Curve



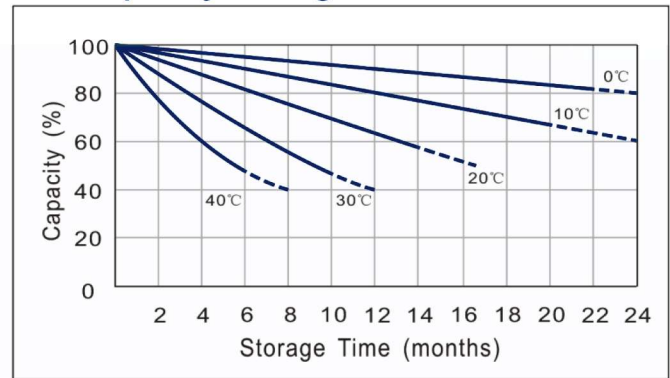
### Discharge Characteristics Curve



### 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	-20~50°C
For cycle service		2.40~2.45 V/cell	-4mV/°C/cell	0.3CA	

### ☑ Float service:

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 2.40-2.45V/Cell charge 24h.

### ☑ Cycle service:

Avoid battery over discharge, especially battery series connection use.

Charged with recommend voltage, ensure battery can be full recharged.

In general, recharge capacity should be 1.1~1.15 times discharge capacity.

### ☑ 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 :  $-0.2C \times 2h + 2.40 \sim 2.45V/cell \times 24h$ , 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

**Note:** The manufacturer reserves the right to change and modify the design and specifications without prior notice