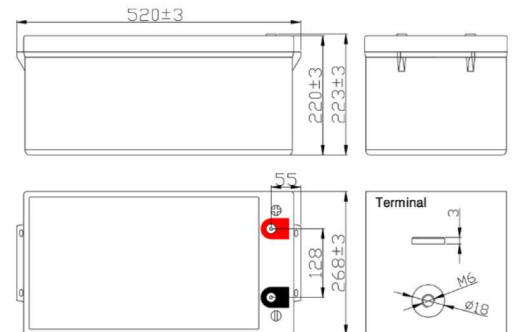


SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	250.0Ah	(C ₁₀ , 1.80V/cell)
Dimensions(mm)	Length	520 ± 3 mm
	Width	268 ± 3 mm
	Height	220 ± 3 mm
	Total Height	223 ± 3 mm
Nominal Capacity @25°C (Ah)	20 Hour rate (13.63A to 10.8 volts)	272.6Ah
	10 Hour rate (25.50A to 10.8 volts)	255.0Ah
	5 Hour rate (43.75A to 10.8 volts)	218.7Ah
	1 Hour rate (158.3A to 10.5 volts)	158.3Ah
Approx. Weight	69 kg	
Terminal	T13	
Max. Discharge Current	2000A @25°C (5s)	
Internal Resistance	3mΩ @25°C (Full Charged Battery)	
DOD 80%	≥500 Cycles @25°C	
Ambient Temperature	Charge:	-20°C~50°C
	Discharge:	-40°C~60°C
	Storage:	-20°C~60°C
Container Material	A.B.S, UL94-HB, UL94-V0, Optional	
Self Discharge	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



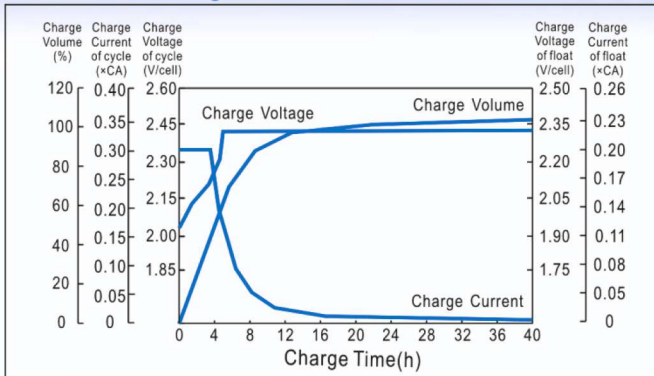
CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A), (25°C)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	850.0	566.3	453.5	281.3	162.5	97.13	69.00	46.20	31.05	26.50	14.50
1.70V/cell	762.5	521.3	431.3	273.8	160.3	95.88	67.75	45.10	30.55	26.13	14.13
1.75V/cell	687.5	481.3	411.3	266.3	158.3	94.63	67.00	44.43	30.25	25.88	13.88
1.80V/cell	612.5	438.8	386.3	256.0	155.0	93.33	66.25	43.75	29.80	25.50	13.63

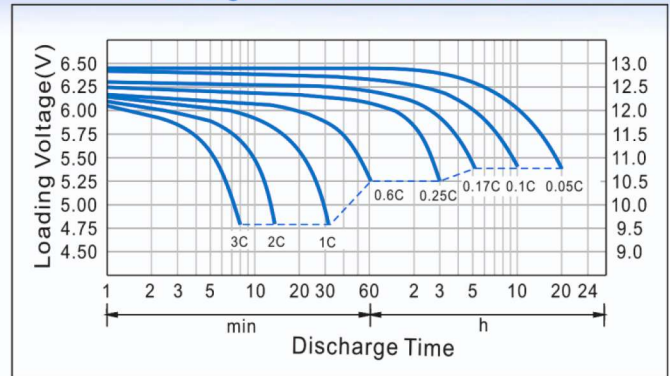
CONSTANT WATTAGE DISCHARGE CHARACTERISTICS (WATT), (25°C)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	1466.3	1009.8	823.9	525.0	311.5	189.4	136.9	91.86	61.79	52.78	28.98
1.70V/cell	1347.1	946.9	794.2	515.6	308.5	187.8	134.7	89.90	60.95	52.16	28.25
1.75V/cell	1231.8	886.3	764.2	505.9	306.0	186.1	133.6	88.78	60.50	51.75	27.75
1.80V/cell	1112.7	819.0	724.2	490.7	301.0	185.1	132.4	87.50	59.60	51.00	27.25

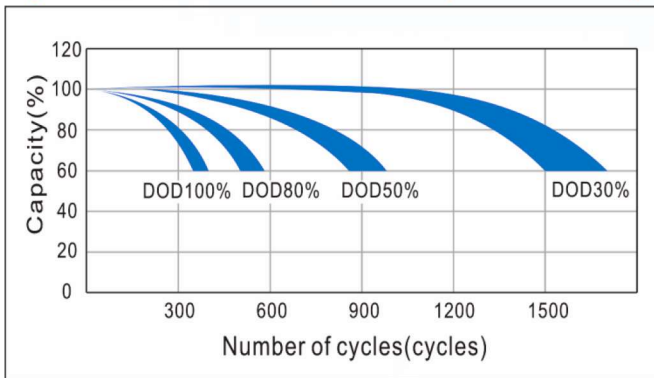
Charge Characteristics Curve



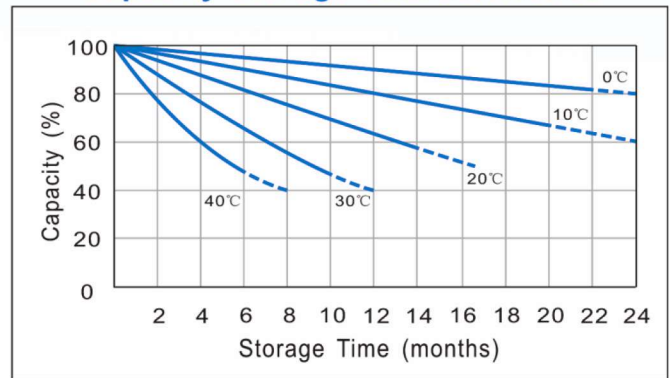
Discharge Characteristics Curve



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