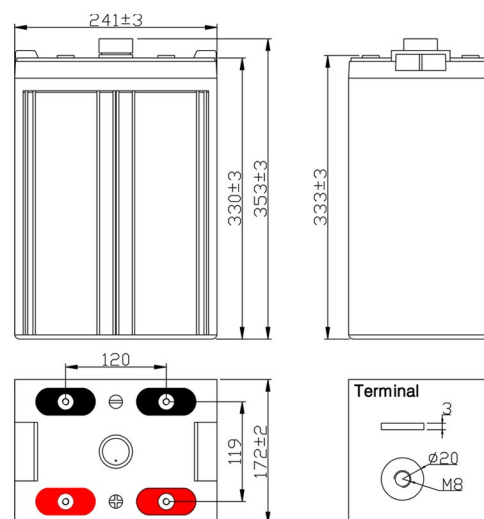




Specification

Nominal Voltage (V)	2V	
Rated Capacity	515.0Ah	(C ₁₀ , 1.70V/cell)
Dimensions(mm)	Length	241 ± 3 mm
	Width	172 ± 2 mm
	Height	330 ± 3 mm
	Total Height	366 ± 3 mm
Nominal Capacity @25°C (Ah)	20 Hour rate (27.80A to 1.70 volts)	556.0Ah
	10 Hour rate (51.50A to 1.70 volts)	515.0Ah
	5 Hour rate (89.10A to 1.70 volts)	445.5Ah
	1 Hour rate (302.5A to 1.70 volts)	302.5Ah
Approx. Weight	27.8 kg	
Terminal	T14	
Max.Discharge Current	3250A @25°C (5s)	
Internal Resistance	0.5mΩ @25°C (Full Charged Battery)	
Floating Design Life	15 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



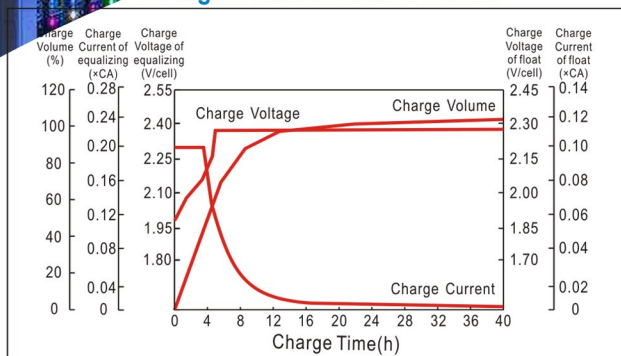
Constant Current Discharge Characteristics (A), (25°C)

F.V/TIME	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	850.0	502.5	312.5	194.3	134.4	90.15	62.10	52.50	28.80
1.70V/cell	775.0	457.5	302.5	191.8	132.8	89.10	61.10	51.50	27.80
1.75V/cell	710.0	417.5	290.0	189.3	131.3	87.75	60.50	51.00	27.30
1.80V/cell	635.0	382.5	275.0	186.7	128.8	86.45	59.60	50.50	26.80

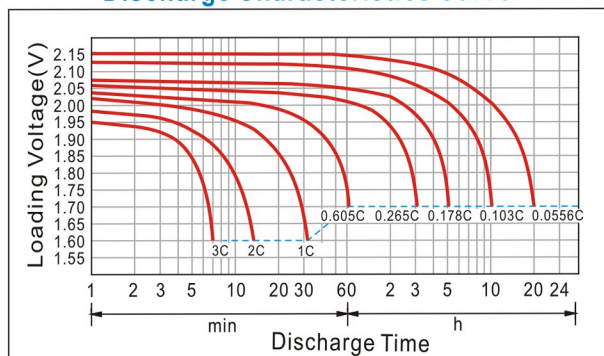
Constant Wattage Discharge Characteristics (Watt), (25°C)

F.V/TIME	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	1522.9	921.3	585.9	369.1	257.6	179.2	123.6	104.6	57.55
1.70V/cell	1420.8	857.8	577.3	367.5	256.7	177.6	121.9	102.8	55.60
1.75V/cell	1313.5	789.8	558.3	365.9	255.9	175.4	121.0	102.0	54.60
1.80V/cell	1185.3	729.9	534.0	364.0	253.2	172.9	119.2	101.0	53.60

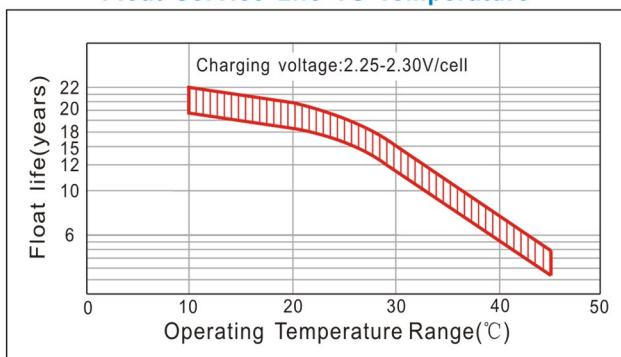
Charge Characteristics Curve



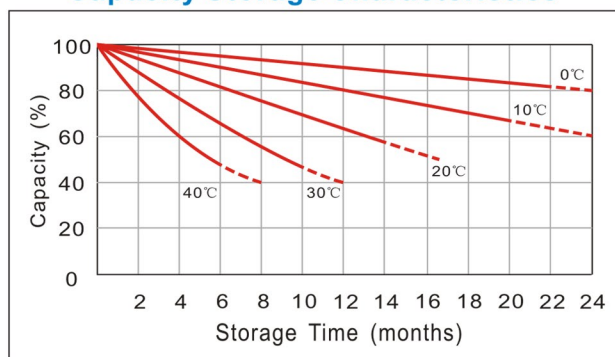
Discharge Characteristics Curve



Float Service Life VS Temperature



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
Floating charge	Constant voltage charging (With current restriction)	2.23~2.27 V/cell	-3mV/°C/cell	0.2CA	-20~50°C
Equalizing charge		2.30~2.35 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 2.30~2.35V/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