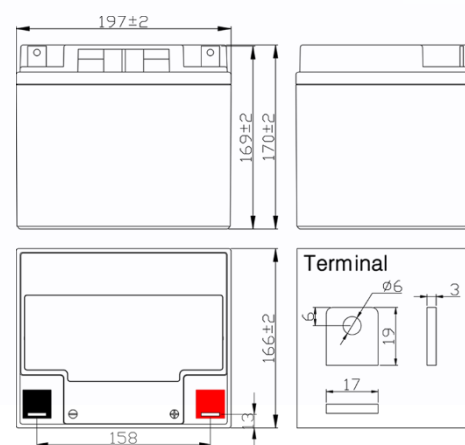


SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	45.0Ah	(C ₁₀ , 1.80V/cell)
Dimensions(mm)	Length	197±2 mm
	Width	166±2 mm
	Height	170±2 mm
	Total Height	170±2 mm
Nominal Capacity @25°C (Ah)	20 Hour rate (2.412A to 10.8 volts)	48.2Ah
	10 Hour rate (4.545A to 10.8 volts)	45.4Ah
	5 Hour rate (7.781A to 10.8 volts)	38.9Ah
	1 Hour rate (28.49A to 10.5 volts)	28.4Ah
Approx. Weight	13.8 kg	
Terminal	T4	
Max.Discharge Current	360A @25°C (5s)	
Internal Resistance	8.0mΩ @25°C (Full Charged Battery)	
Floating Design Life	10 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.	



COMPANY CERTIFICATION



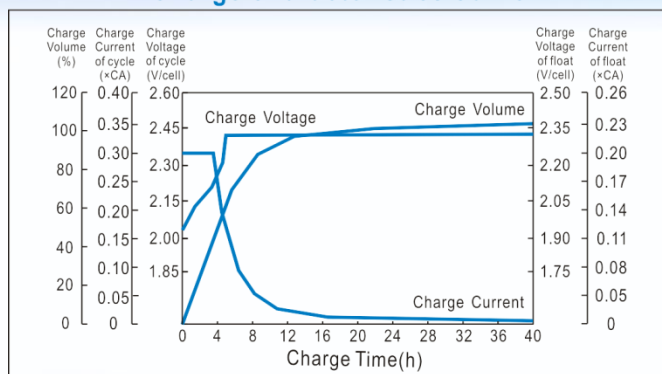
CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A), (25°C)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	150.8	96.75	78.75	50.63	29.25	17.48	12.10	8.114	5.589	4.725	2.592
1.70V/cell	132.8	87.75	75.38	49.28	28.85	17.26	11.95	8.019	5.499	4.635	2.502
1.75V/cell	119.3	81.00	71.33	47.93	28.49	17.03	11.81	7.898	5.445	4.590	2.457
1.80V/cell	103.5	73.35	66.83	46.08	27.90	16.80	11.59	7.781	5.364	4.545	2.412

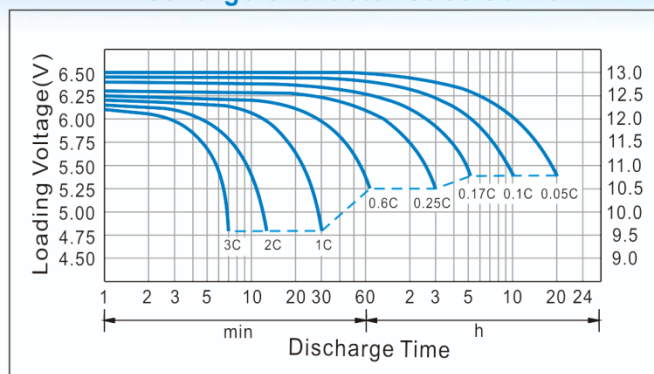
CONSTANT WATTAGE DISCHARGE CHARACTERISTICS (WATT), (25°C)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	260.0	172.5	143.1	94.50	56.06	34.09	23.99	16.13	11.12	9.411	5.180
1.70V/cell	234.5	159.4	138.8	92.80	55.53	33.80	23.76	15.98	10.97	9.255	5.004
1.75V/cell	213.7	149.2	132.5	91.06	55.07	33.50	23.55	15.78	10.89	9.180	4.914
1.80V/cell	188.0	136.9	125.3	88.32	54.17	33.32	23.16	15.56	10.73	9.090	4.824

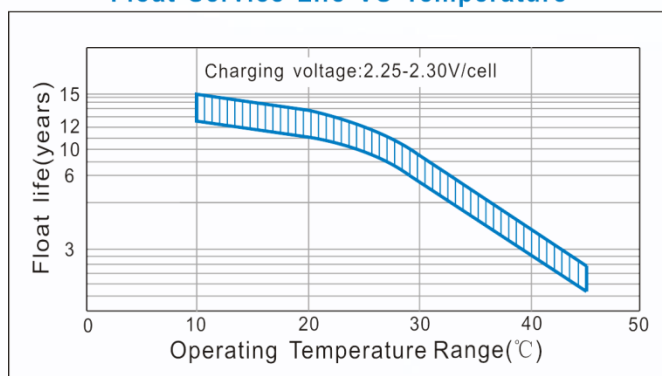
Charge Characteristics Curve



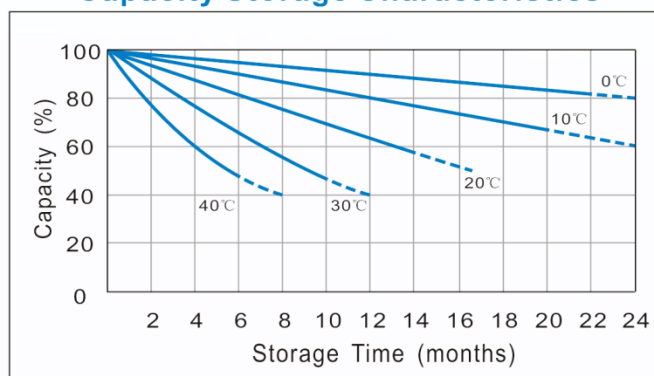
Discharge Characteristics Curve



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%

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		2.40~2.45 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 2.40-2.45V/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×2h+2.40~2.45V/cell×24h, Max. Current 0.25CA

Constant Current: -0.2C×2h+0.1C×12h

Fast: -0.2C×2h+0.3C×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

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