



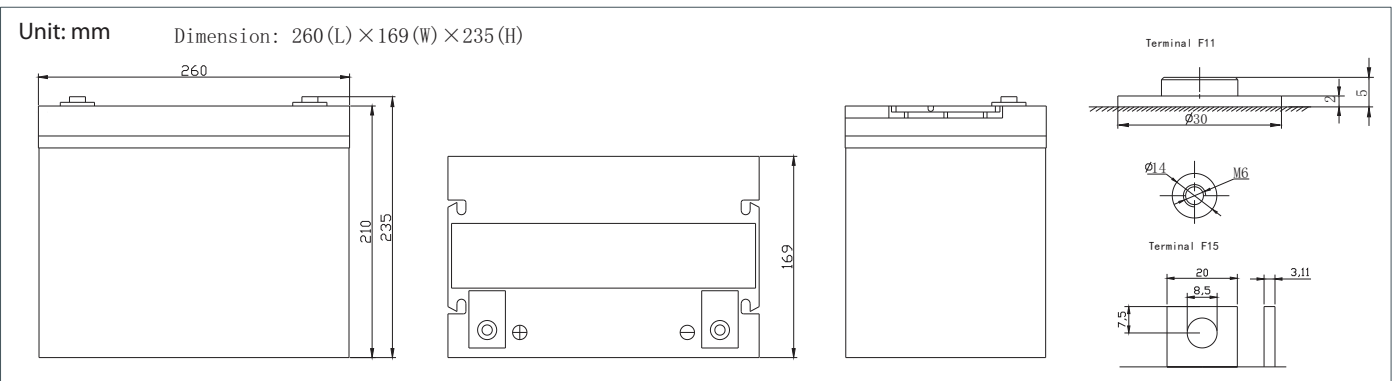
General purpose battery with 10 years design life in float service. It meets with IEC, JIS and BS standards . With up-dated AGM valve regulated technology and high purity raw materials, battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	70Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 21.5 Kg (Tolerance ±2%)
Max. Discharge Current	700A (5 sec)
Internal Resistance	Approx. 6 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	21A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	spa Valve Regulated Lead Acid (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.
Terminal	Terminal F11/F15
Container Material	Flammability resistance of UL94-V0



Dimensions



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

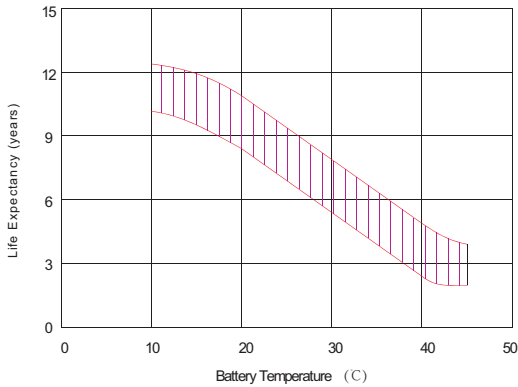
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	245.1	180.5	134.6	70.33	43.69	26.98	18.33	14.78	12.27	8.08	7.28	3.86
10.0V	238.0	171.7	131.9	69.43	43.11	26.43	17.99	14.57	12.16	8.05	7.21	3.78
10.2V	231.0	165.6	129.8	68.37	42.70	26.15	17.83	14.43	12.08	7.98	7.14	3.71
10.5V	207.4	152.8	123.6	66.48	42.18	25.81	17.67	14.21	11.98	7.91	7.07	3.64
10.8V	187.2	139.4	113.9	64.29	41.59	25.60	17.47	13.73	11.92	7.87	7.01	3.60
11.1V	159.8	124.6	102.2	61.84	40.60	24.57	17.13	13.53	11.84	7.81	6.92	3.46

Constant Power Discharge Characteristics: W(25°C)°

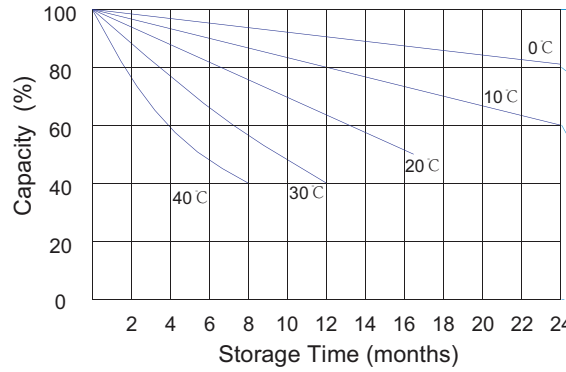
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	2586	1922	1468	805.1	506.3	316.1	215.8	176.9	147.0	96.8	87.35	46.45
10.0V	2535	1863	1444	796.7	501.7	312.3	212.6	174.4	145.7	96.4	86.66	45.65
10.2V	2506	1814	1428	789.8	498.7	310.0	211.7	172.8	144.8	95.7	85.89	44.80
10.5V	2281	1689	1362	773.7	495.5	306.1	210.0	170.5	143.6	94.9	85.05	43.95
10.8V	2078	1557	1259	755.4	489.2	303.8	207.6	164.7	143.0	94.5	84.21	43.53
11.1V	1825	1408	1133	734.6	481.9	292.5	204.1	162.4	142.5	93.79	83.29	41.97

All mentioned values are average values (Tolerance ±2%).

Effect of temperature on long term float life



Storage characteristic

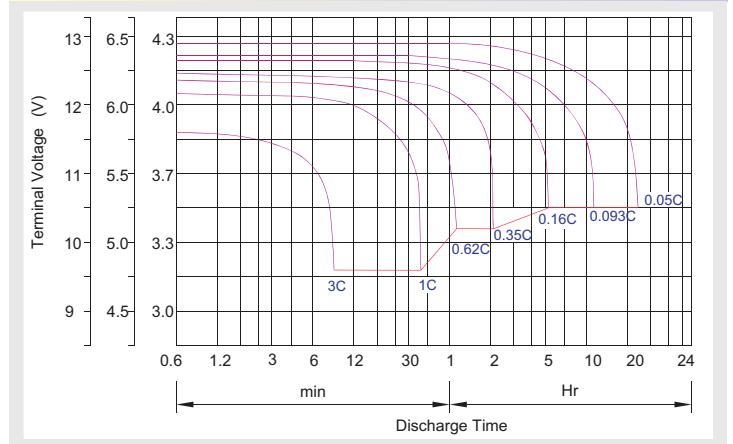
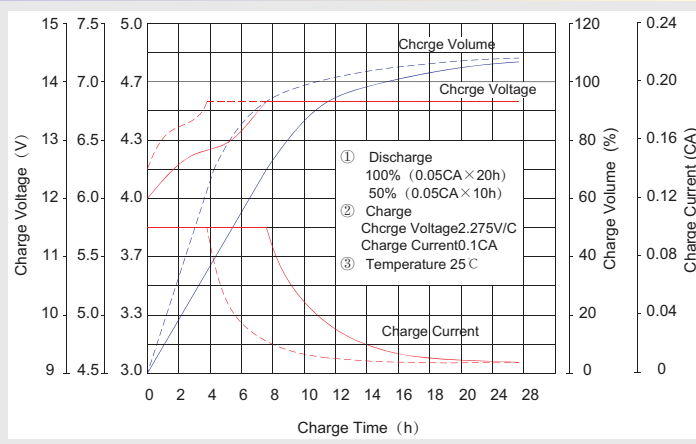


Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines



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%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	14.5-14.9V, 5-11h, Max Current 0.3CA
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Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.