

JYHY240000 (2V4000Ah)

JYHY240000 is a general purpose battery with 18 years floating design life. With heavy duty grid, thick plates, special additives, HUANYU series battery maintain very long life time and stable performance.



Specification

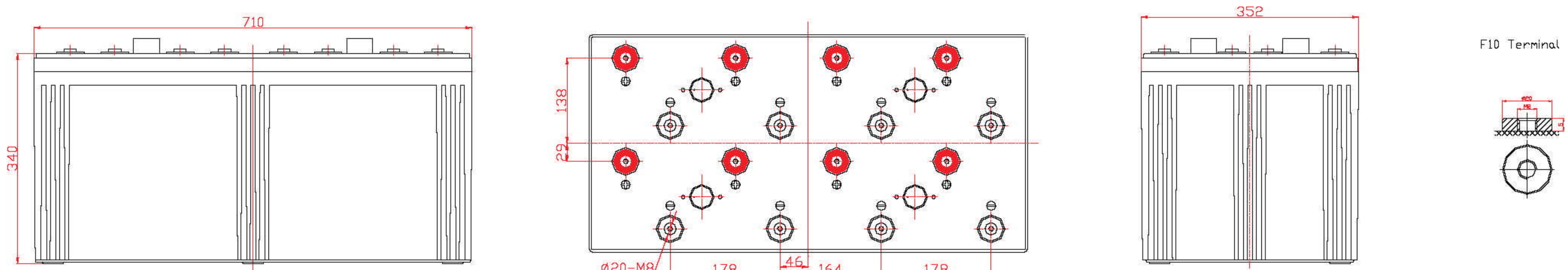
Cells Per Unit	1
Voltage Per Unit	2
Capacity	4000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 228 Kg
Max. Discharge Current	9000 A (5 sec)
Internal Resistance	Approx. 0.28 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	2.27 to 2.3 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	800 A
Equalization and Cycle Service	2.43 to 2.47 VDC/unit Average at 25°C
Self Discharge	Huanyu 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	Thread insert & Bolt (F10)
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 710(L)X352(W)X383(H)



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	5431	4005	2578	1532	1141.1	909.7	716.6	643.4	519.4	416.6
1.65V	5164	3846	2466	1476	1093.3	877.8	709.4	627.9	496.1	412.7
1.70V	4815	3625	2418	1452	1069.3	869.8	699.3	612.4	488.4	408.7
1.75V	4275	3262	2226	1373	1013.5	821.9	690.3	581.4	472.9	404.3
1.80V	3680	2972	2099	1309	973.6	814.0	678.3	573.6	465.1	400.6
1.85V	3112	2675	1939	1237	925.7	750.1	638.4	542.6	441.9	376.1

Constant Power Discharge Characteristics : W(25°C)

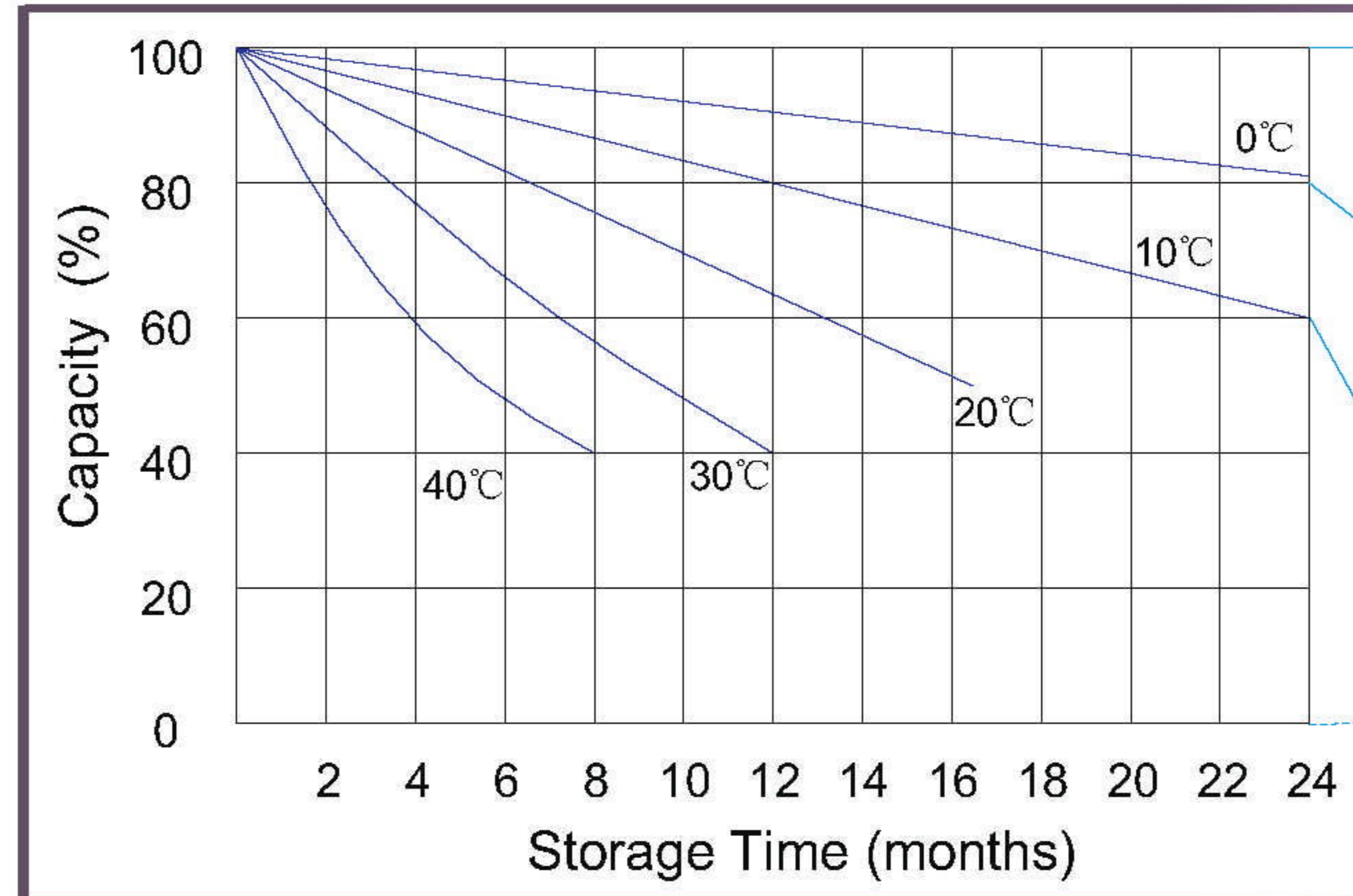
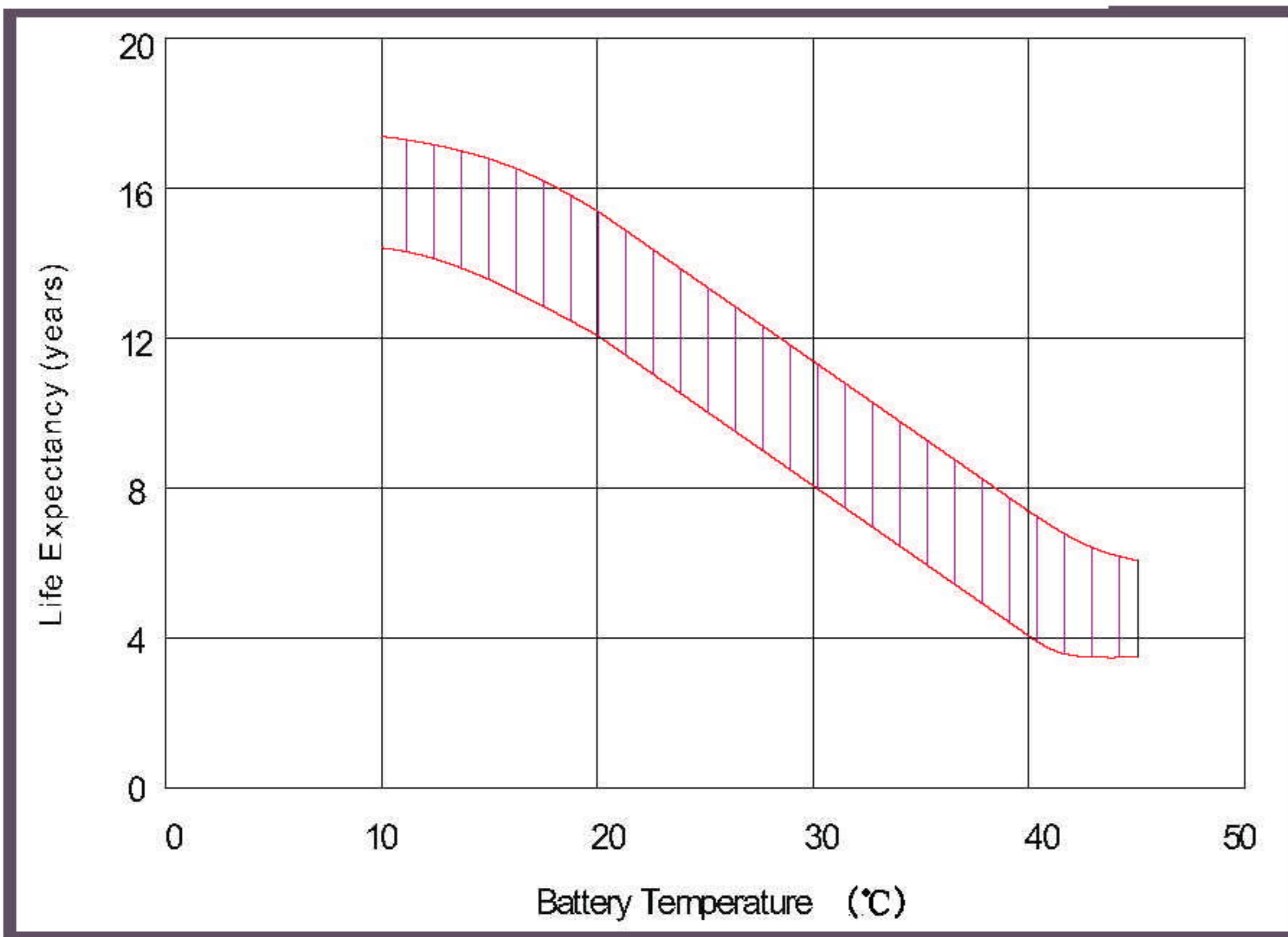
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	9508	7299	4720	2838	2127	1710	1448	1241.4	988.4	838.1
1.65V	9259	7260	4703	2797	2085	1684	1431	1225.6	980.0	830.2
1.70V	8746	6871	4617	2756	2053	1678	1419	1197.1	964.9	817.3
1.75V	7791	6192	4253	2609	1979	1593	1359	1138.2	934.5	804.2
1.80V	6743	5649	4011	2492	1898	1586	1315	1124.6	919.4	775.6
1.85V	5750	5094	3707	2359	1808	1469	1255	1065.4	873.7	746.8

All mentioned values are average values.

JYHY240000



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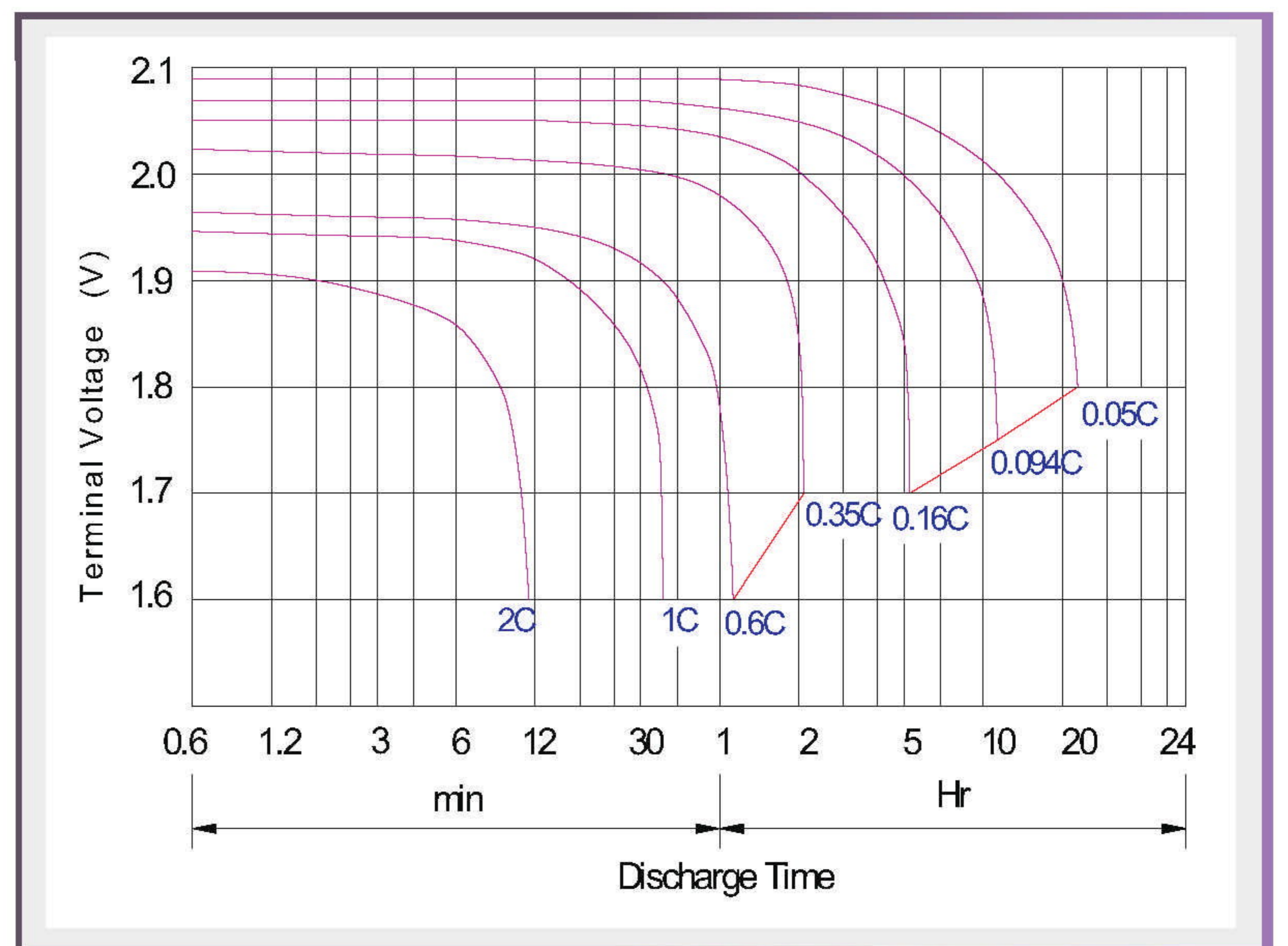
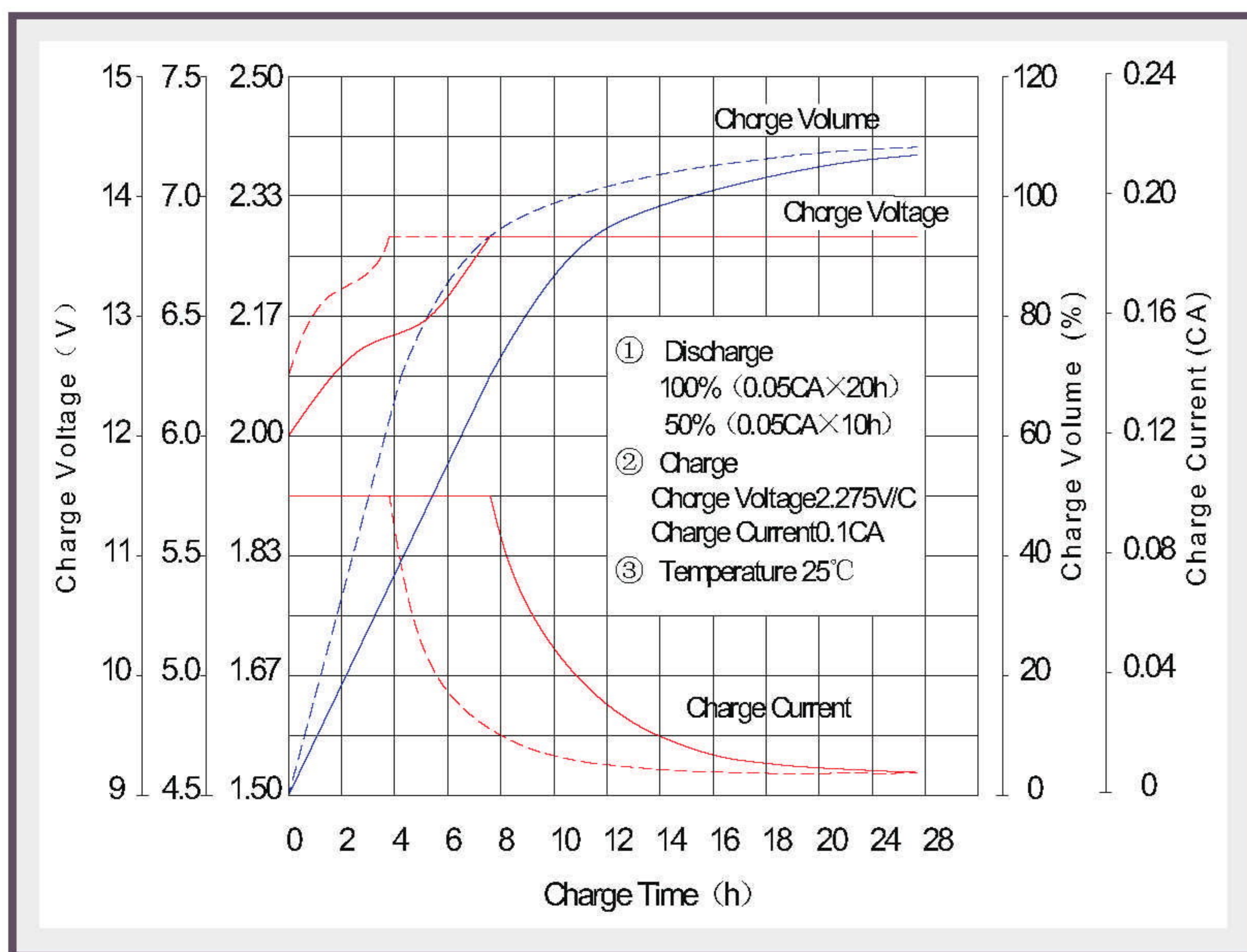


Supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required)

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	-0.2Cx2h+2.40 ~ 2.45V, 24h, Max, Current 0.2CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.2CAx6.0h

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.