



Holy Enterprise Limited

FL.2, No.12 North Ave.1, Industrial Rd. East, Gusan, Guzhen, Zhongshan, Guangdong, China

Specification

6FM-90DC 12V90AH/10HR

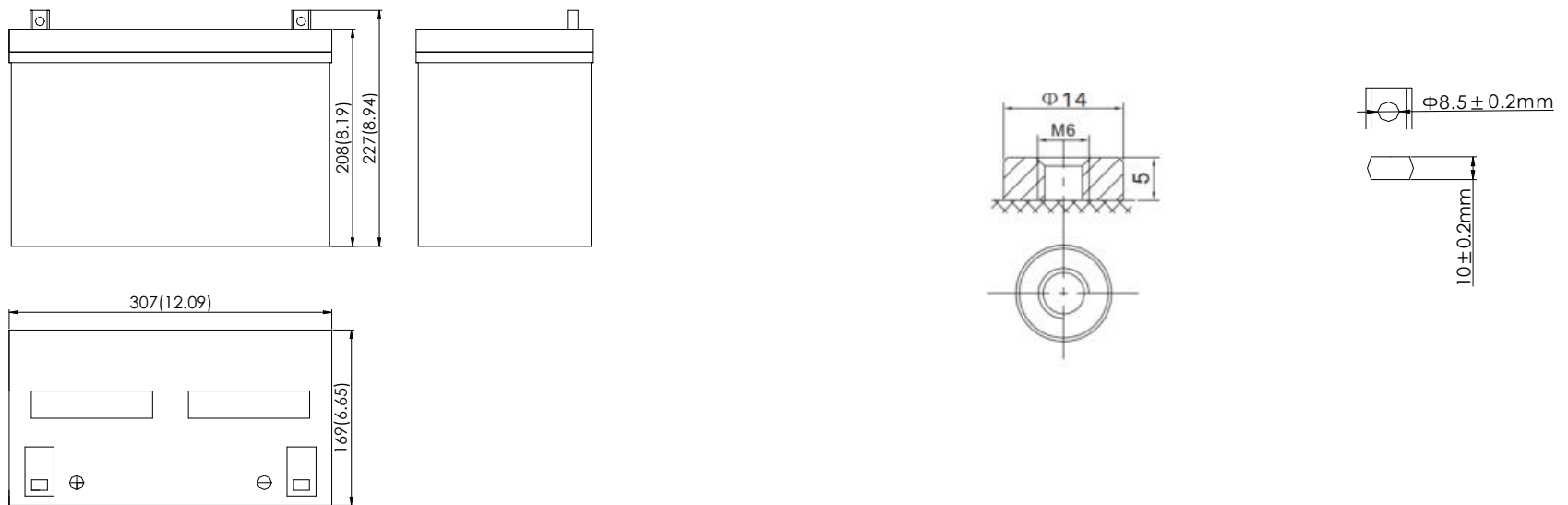
Cells Per Unit	6
Voltage Per Unit	12
Capacity	90AH@10hr-rate to 1.8V per cell @ 25°C
Weight	Approx.28.0kg (Tolerance±3%)
Max. Discharge Current	900 A(5sec)
Internal Resistance	Approx.:6.0 mΩ
Operating Temperature Range	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	22.5A
Equalization and Cycle service	2.35 to 2.40 VDC /unit Average at 25°C
Terminal	Terminal: NB/B



Application

Uninterruptible Power System;
Communication Equipments;
Solar Power Systems;
Solar Power Street Light;
Wind Power Systems
UPS

Dimension: 307(L) ×169 (W) ×208 (H) (Total 227/235 mm)



Constant Current Discharge Characteristics: A(25°C)

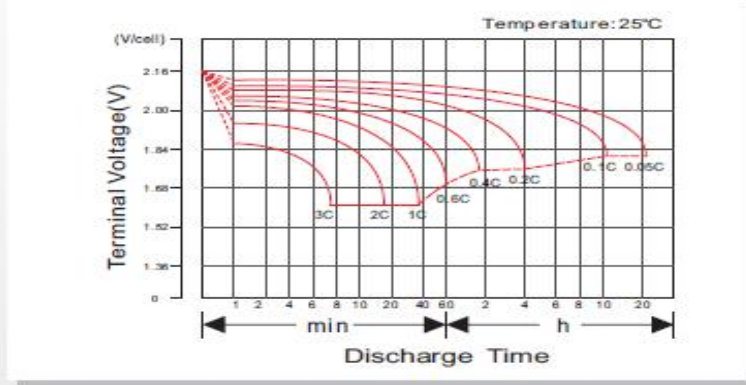
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	159.5	136.4	89.6	52.56	31.60	25.00	19.74	17.00	11.39	9.52	4.95
1.75V/cell	175.3	149.0	93.0	55.00	32.72	25.48	20.21	17.22	11.58	9.62	5.00
1.70V/cell	191.0	159.1	96.8	56.79	34.03	26.15	20.78	17.72	11.77	9.71	5.09
1.65V/cell	206.1	169.1	102.1	58.67	34.96	27.31	21.44	18.21	11.96	9.91	5.16
1.60V/cell	223.8	180.9	107.8	60.74	36.17	28.17	22.10	18.80	12.06	10.00	5.18

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

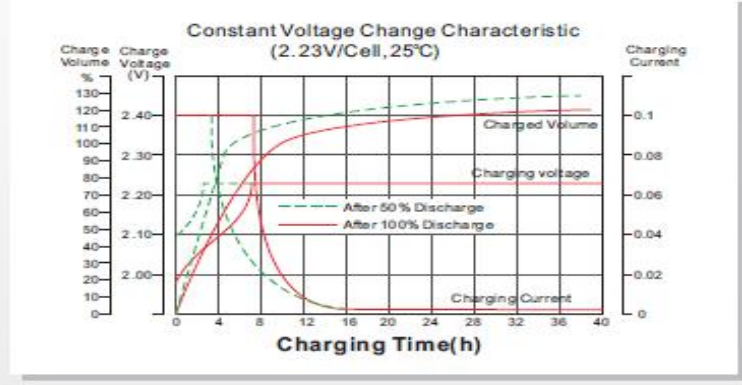
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	1761.6	1520.4	1020.0	608.4	366.90	291.90	231.18	195.24	133.68	112.02	59.31
1.75V/cell	1911.6	1644.6	1054.2	634.8	375.42	293.58	235.74	197.94	135.90	113.16	59.86
1.70V/cell	2054.4	1742.4	1092.6	652.8	389.28	301.02	241.38	202.56	138.18	114.30	60.96
1.65V/cell	2201.4	1840.8	1147.8	672.6	399.24	313.02	249.36	207.72	139.86	116.52	61.50
1.60V/cell	2286.0	1893.0	1175.4	684.0	410.34	321.00	255.54	213.48	141.00	117.66	62.10

All mentioned values are average values.

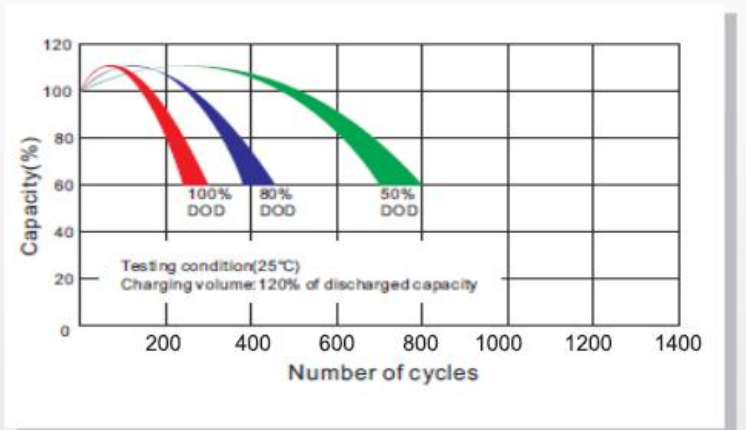
Discharge Characteristics Curve



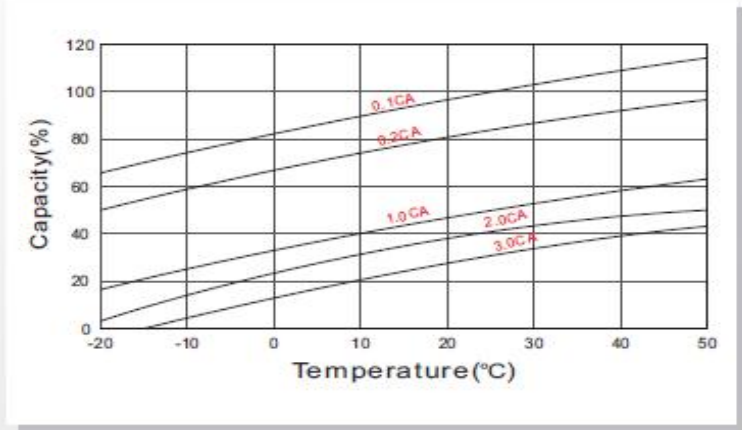
Charging Characteristics Curve



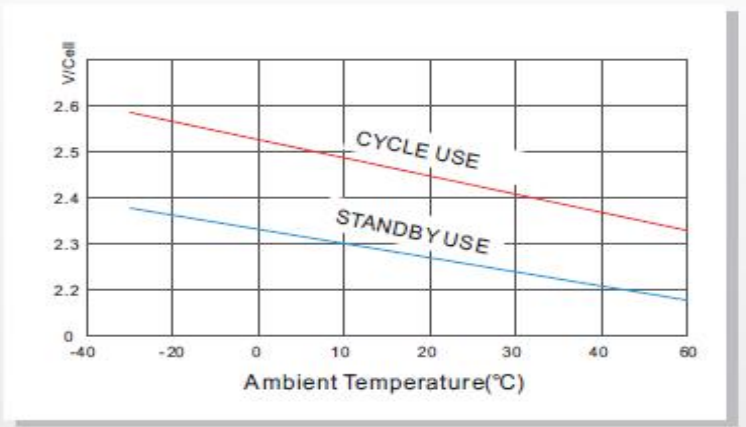
Cycle life in relation to depth of Discharge



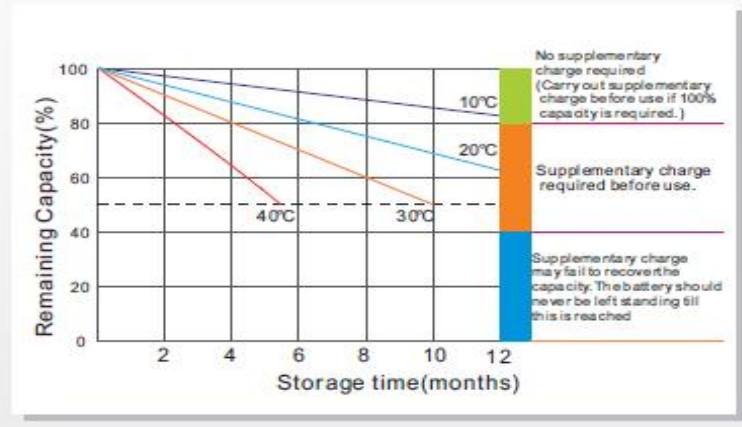
Temperature effects on Capacity



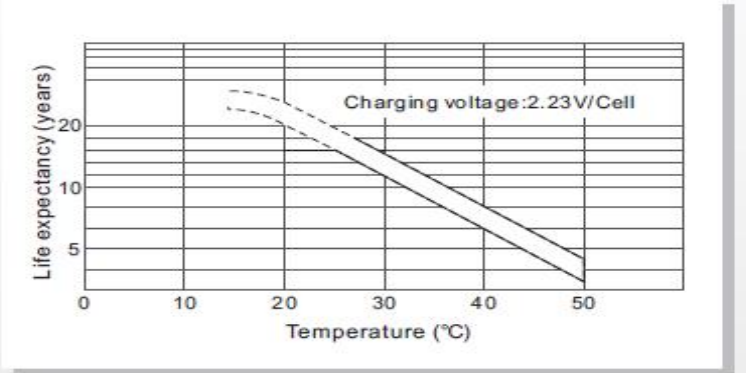
Relationship between charging voltage and temperature



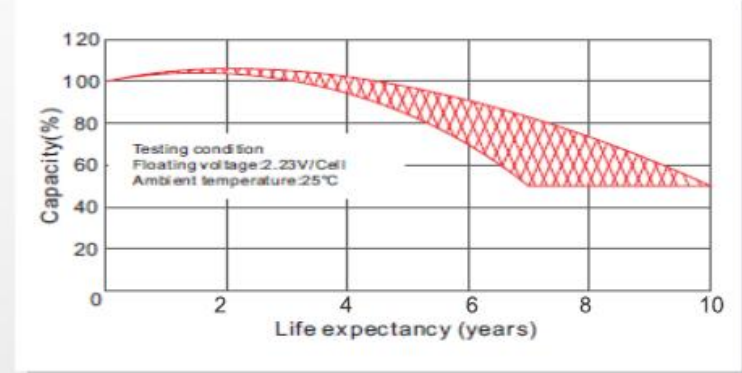
Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use



Maintenance & Cautions

- ※ Every month, recommend inspection every battery voltage;
- ※ Every three months, recommend equalization charge once;
Equalization charge method:
Discharge: 100% rate capacity discharge;
Charge: Max. Current 0.3CA, constant voltage 2.35-2.4V/Cell;
- ※ Effect of temperature on float charge voltage: -3mV/Cell;

CONTACT Us

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