



# Holy Enterprise Limited

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

## Specification

6FM-120DC 12V120AH/10HR

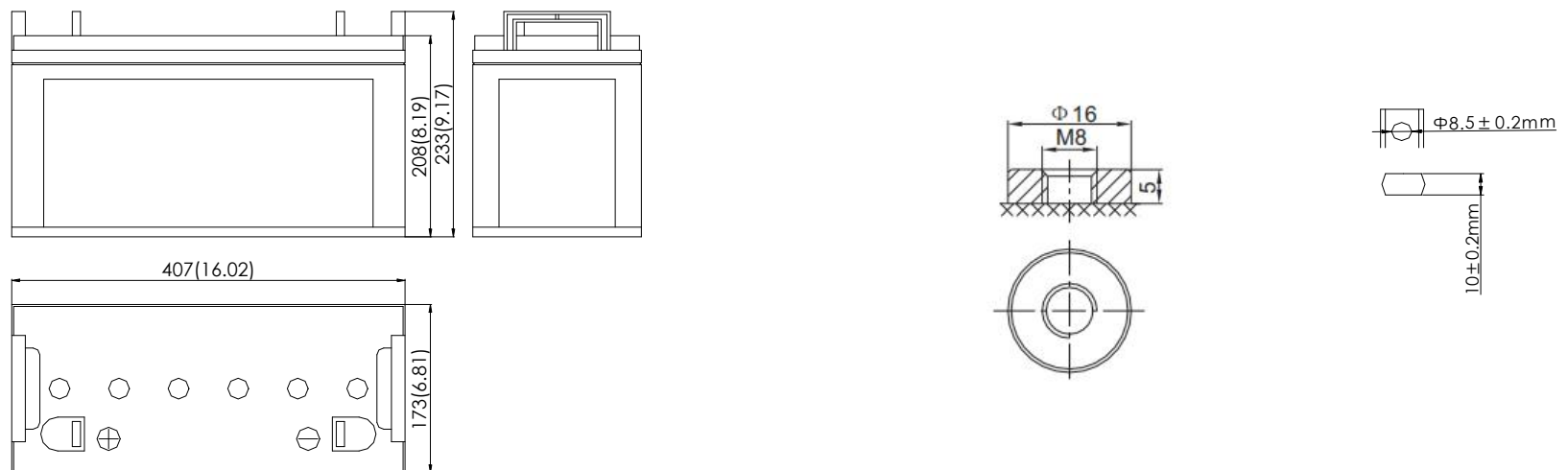
Cells Per Unit	6
Voltage Per Unit	12
Capacity	120AH@10hr-rate to 1.8V per cell @ 25°C
Weight	Approx.35.0kg (Tolerance±3%)
Max. Discharge Current	1000 A(5sec)
Internal Resistance	Approx.4.5 mΩ
Operating Temperature Range	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature Range	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	30.0A
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;

**Dimension: 407(L) ×173 (W) ×208 (H) (Total 233 mm)**



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

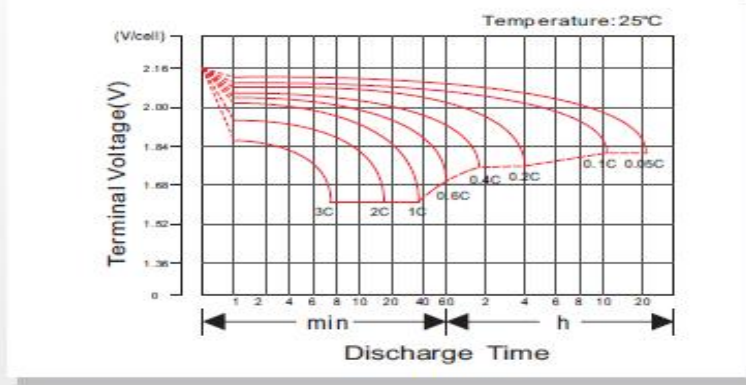
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	195.2	162.9	107.2	63.07	37.92	30.00	23.69	20.40	13.67	11.43	5.94
1.75V/cell	214.5	177.9	111.3	66.00	39.26	30.58	24.25	20.67	13.90	11.54	6.00
1.70V/cell	233.8	189.9	115.9	68.14	40.83	31.38	24.93	21.26	14.13	11.66	6.11
1.65V/cell	252.3	201.9	122.2	70.40	41.95	32.77	25.73	21.85	14.36	11.89	6.19
1.60V/cell	273.9	215.9	129.0	72.88	43.40	33.81	26.52	22.56	14.47	12.00	6.22

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

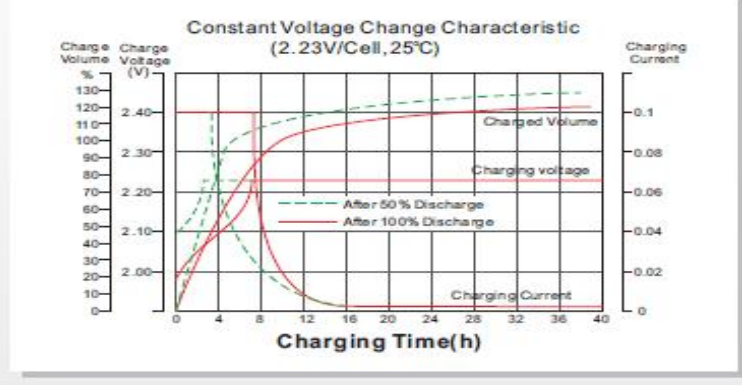
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	2155.8	1815.0	1221.0	730.2	440.28	350.28	277.44	234.30	160.38	134.40	71.16
1.75V/cell	2340.0	1963.2	1261.8	761.4	450.54	352.26	282.90	237.48	163.08	135.78	71.82
1.70V/cell	2514.6	2080.2	1308.0	783.0	467.10	361.20	289.68	243.06	165.78	137.10	73.14
1.65V/cell	2694.6	2197.8	1374.0	807.0	479.10	375.60	299.22	249.30	167.82	139.86	73.86
1.60V/cell	2798.4	2260.2	1407.0	820.8	492.36	385.20	306.66	256.20	169.20	141.18	74.52

All mentioned values are average values.

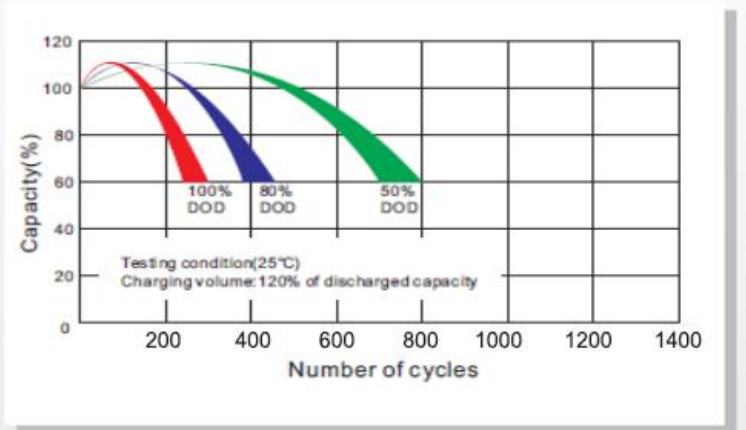
### Discharge Characteristics Curve



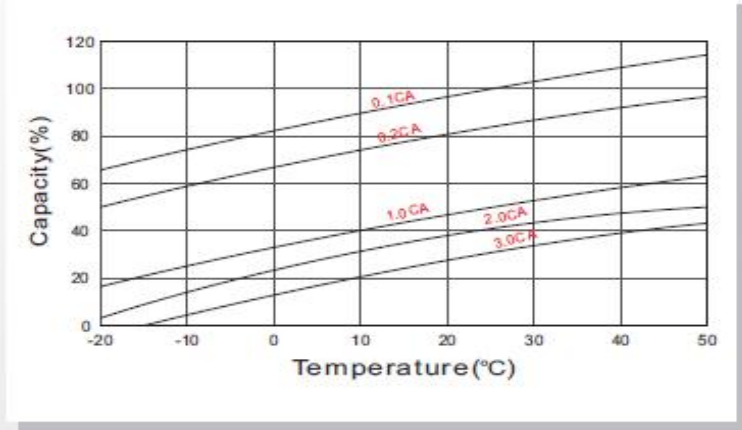
### Charging Characteristics Curve



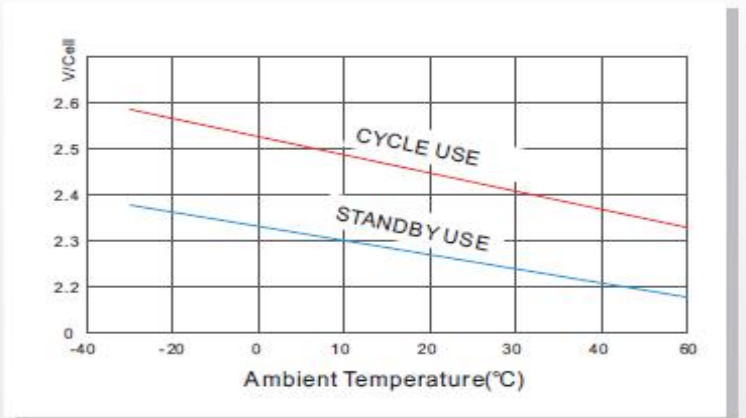
### Cycle life in relation to depth of Discharge



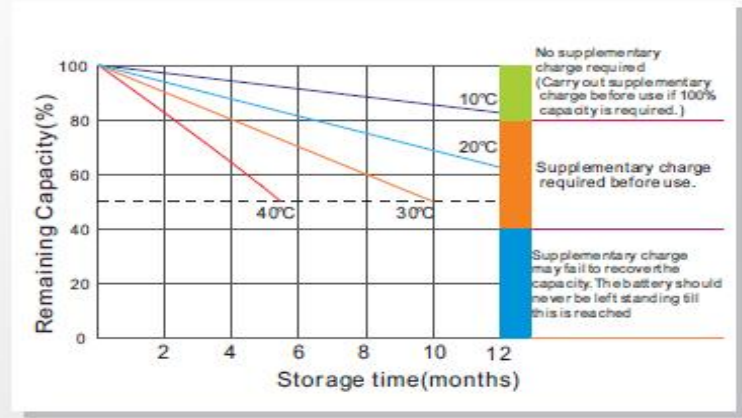
### Temperature effects on Capacity



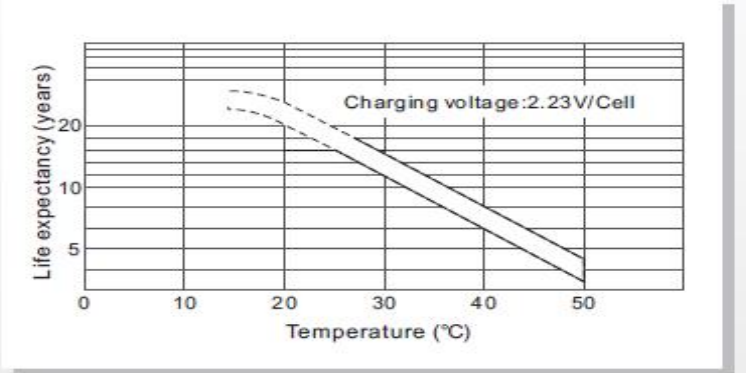
### Relationship between charging voltage and temperature



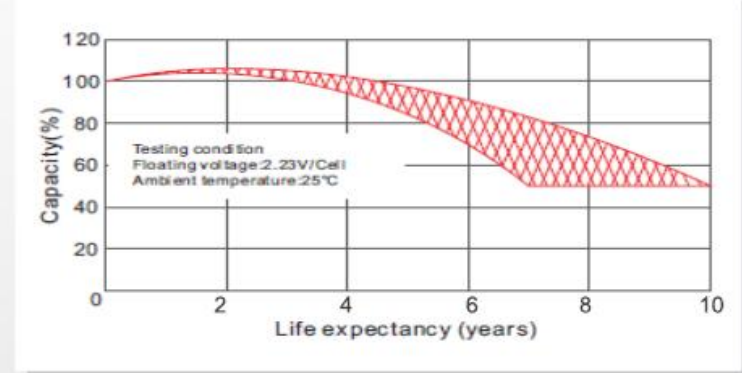
### Self-discharge Characteristics



### 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

**Add:** FL.2, No.12 North Ave.1, Industrial Rd. East, Gusan, Guzhen, Zhongshan, Guangdong, China,  
**T:** +86-760-8862 5562 | **F:** +86-760-8862 5562  
**Email:** [sales@holybattery.com](mailto:sales@holybattery.com) [johny5@126.com](mailto:johny5@126.com)  
**Website:** [www.holybattery.com](http://www.holybattery.com)