



# Holy Enterprise Limited

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

## Specification

6-FM-7.5 12V7.5AH/20HR

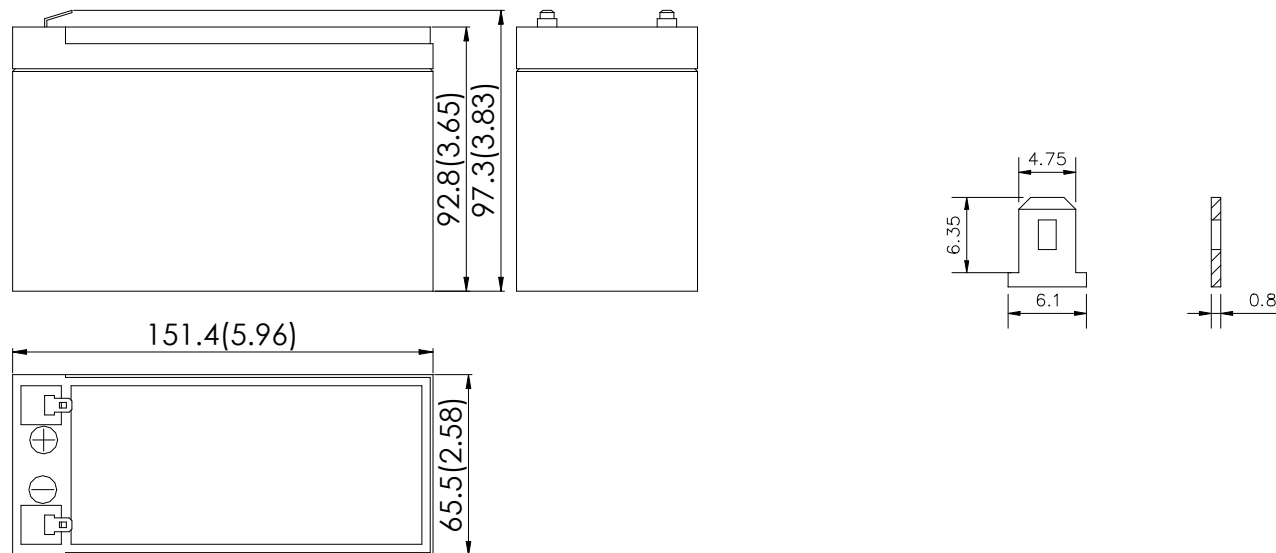
Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.5AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.2.25 kg (Tolerance±3%)
Max. Discharge Current	75 A(5sec)
Internal Resistance	Approx 34 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	2.25A
Equalization and Cycle service	2.35 to 2.40 VDC /unit Average at 25°C
Terminal	Terminal: F1/F2



## Application

- Alarm Systems
- Electronic Toys
- Medical Equipment
- Cable Television
- Communications Equipment
- Electronic Cash Registers
- Electric Test Equipment
- Emergency lighting Systems
- UPS

Dimension: 151(L) ×65(W) ×93(H) (Total 97 mm)



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

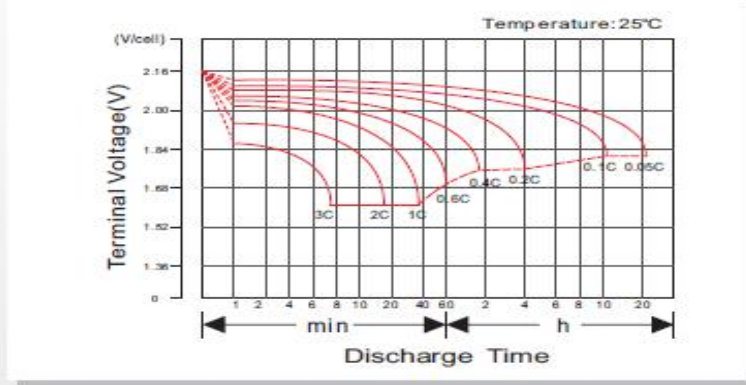
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	23.77	17.24	14.00	8.58	5.17	3.05	2.08	1.681	1.378	0.900	0.690	0.363
1.75V/cell	26.53	18.48	14.84	8.87	5.27	3.07	2.10	1.689	1.393	0.904	0.735	0.387
1.70V/cell	29.51	19.76	15.73	9.12	5.37	3.11	2.12	1.705	1.410	0.912	0.761	0.401
1.65V/cell	31.35	20.79	16.18	9.26	5.42	3.15	2.14	1.722	1.426	0.920	0.773	0.407
1.60V/cell	32.53	21.33	16.72	9.38	5.58	3.21	2.18	1.746	1.450	0.924	0.805	0.424

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

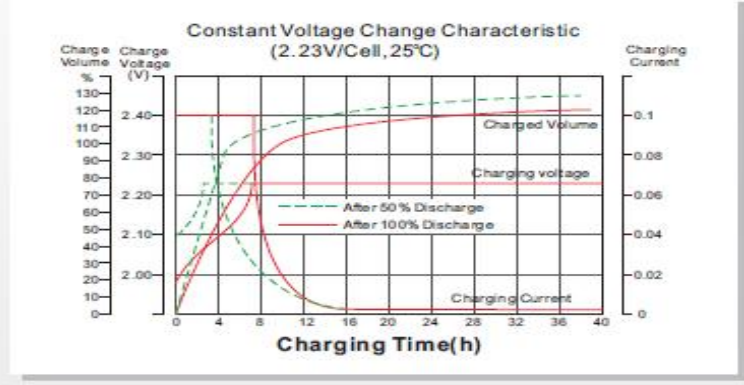
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	261.1	191.3	155.9	100.8	61.45	36.31	24.96	20.19	16.54	10.8	9.161	4.635
1.75V/cell	289.4	204.5	165	103.2	62.47	36.61	25.26	20.26	16.71	10.84	9.302	4.923
1.70V/cell	317	213.3	174.1	105.4	63.33	36.91	25.36	20.45	16.91	10.94	9.4	5.067
1.65V/cell	333.3	222.1	176.4	106.3	63.8	37.15	25.46	20.62	17.08	11.02	9.49	5.163
1.60V/cell	342.2	226.8	179	107.4	64.75	37.47	25.51	20.67	17.17	11.06	9.58	5.354

All mentioned values are average values.

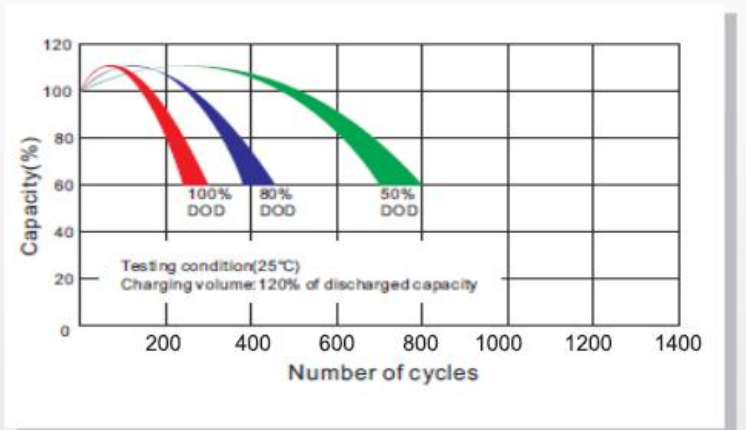
### Discharge Characteristics Curve



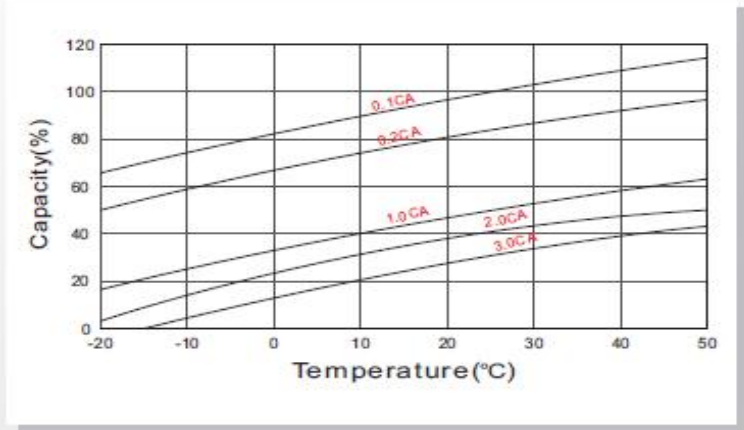
### Charging Characteristics Curve



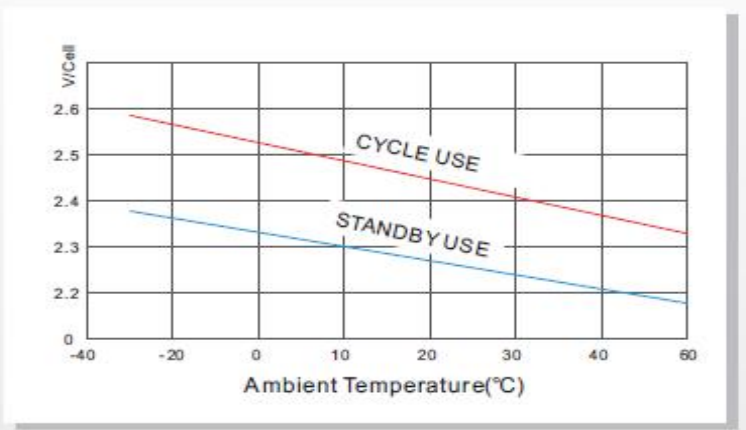
### Cycle life in relation to depth of Discharge



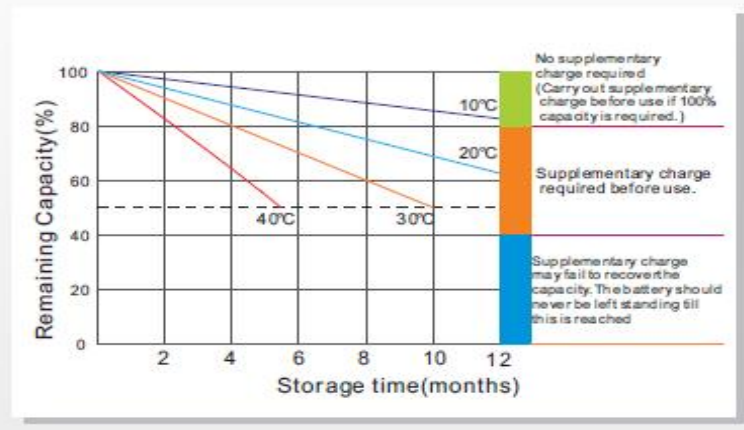
### Temperature effects on Capacity



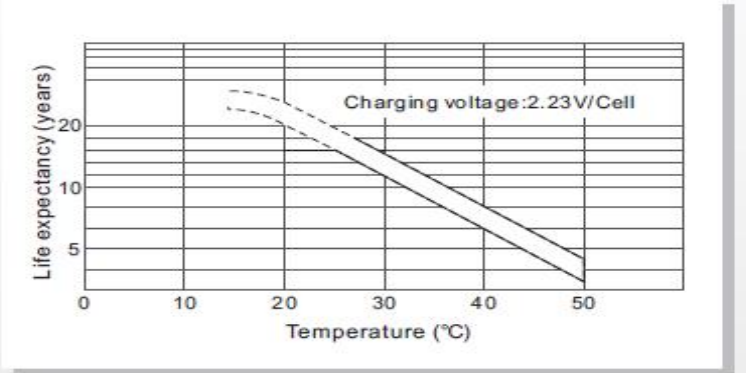
### Relationship between charging voltage and temperature



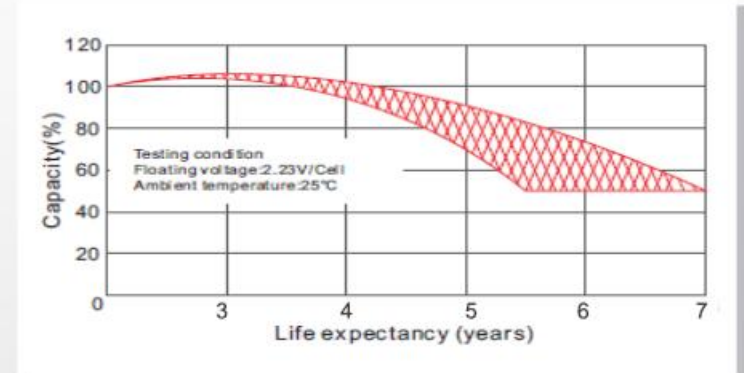
### Self-discharge Characteristics



### 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)