



# Holy Enterprise Limited

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

## Specification

3-FM-10 6V10AH/20HR

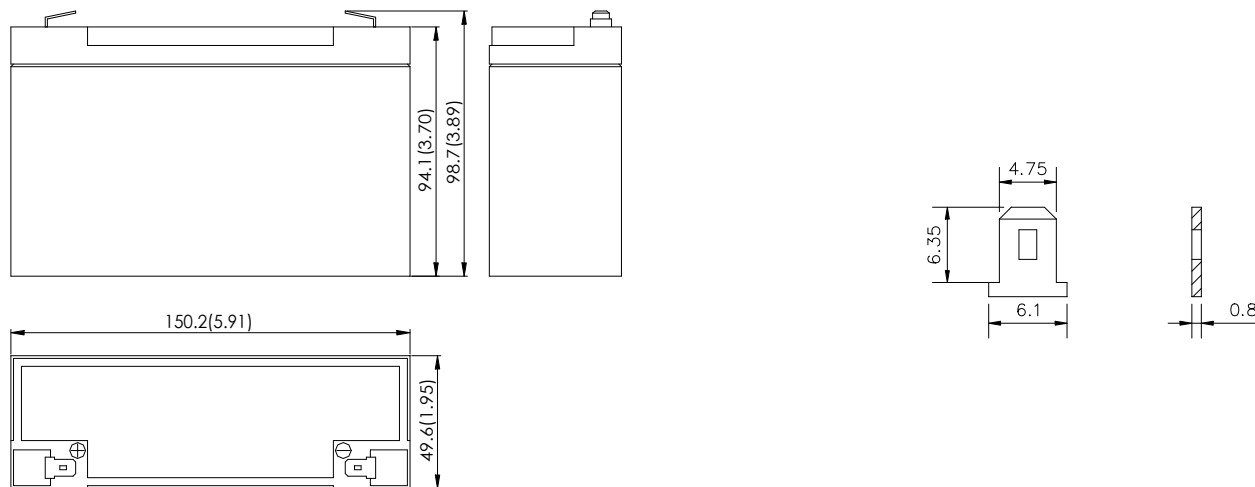
Cells Per Unit	3
Voltage Per Unit	6
Capacity	10.0AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.1.63 kg (Tolerance±3%)
Max. Discharge Current	100A(5sec)
Internal Resistance	Approx 10.0 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	3.0A
Equalization and Cycle service	2.35 to 2.40 VDC /unit Average at 25°C
Terminal	Terminal: F1



## Application

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

Dimension: 150(L) ×50(W) ×94(H) (Total 99 mm)



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

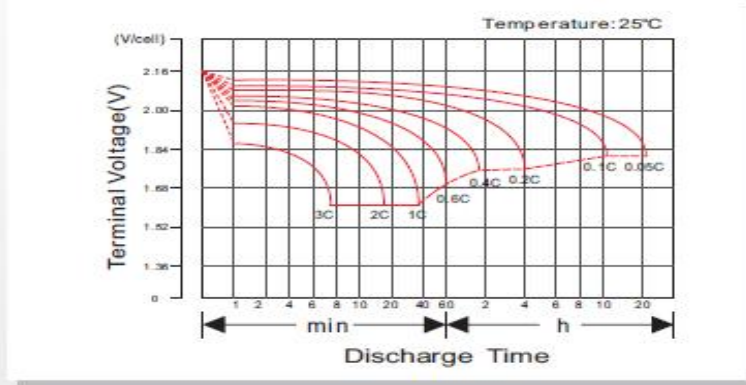
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	24.29	18.94	14.77	9.24	5.29	3.27	2.50	2.039	1.700	1.146	0.935	0.495
1.75V/cell	27.67	20.93	15.99	9.67	5.50	3.39	2.58	2.100	1.745	1.166	0.947	0.500
1.70V/cell	30.88	22.86	17.18	10.11	5.71	3.51	2.66	2.155	1.790	1.182	0.959	0.506
1.65V/cell	34.22	24.83	18.35	10.58	5.90	3.63	2.73	2.215	1.837	1.200	0.974	0.512
1.60V/cell	36.80	26.28	19.19	11.02	6.11	3.75	2.82	2.277	1.886	1.214	0.986	0.521

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

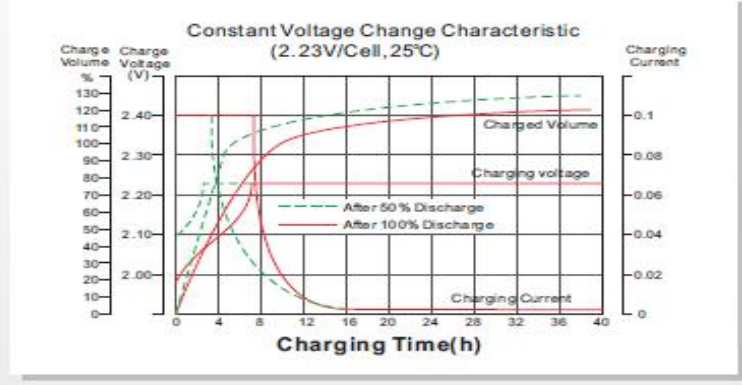
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	130.47	103.86	82.05	52.44	30.54	18.96	14.57	11.922	9.969	6.771	5.541	2.940
1.75V/cell	145.50	112.77	87.63	54.30	31.56	19.56	14.97	12.231	10.197	6.873	5.604	2.964
1.70V/cell	158.88	120.99	92.82	56.25	32.58	20.18	15.37	12.504	10.425	6.954	5.673	2.997
1.65V/cell	172.17	129.06	97.65	58.26	33.45	20.75	15.73	12.804	10.665	7.047	5.751	3.030
1.60V/cell	183.03	134.01	100.65	60.06	34.44	21.33	16.16	13.113	10.908	7.113	5.814	3.075

All mentioned values are average values.

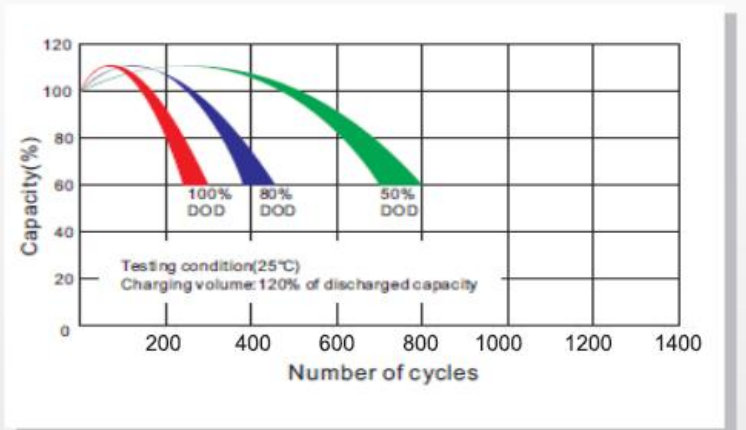
### Discharge Characteristics Curve



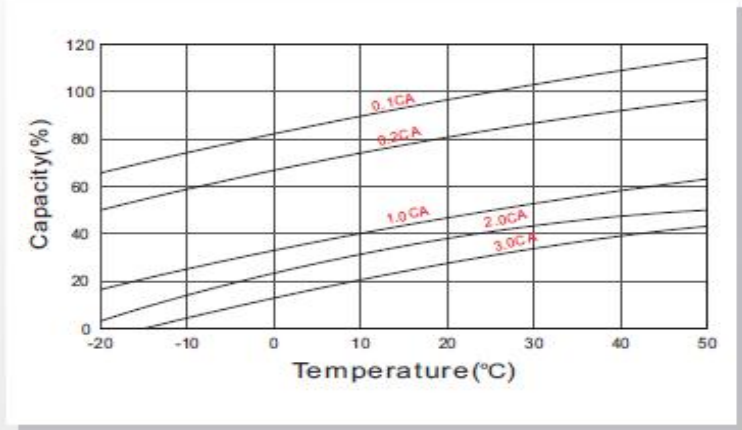
### Charging Characteristics Curve



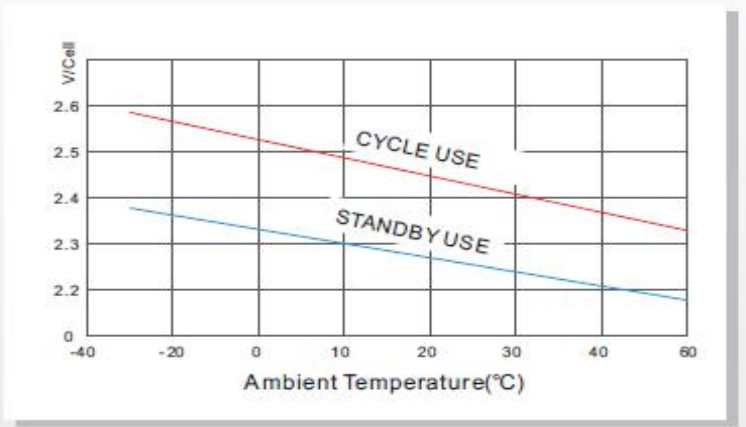
### Cycle life in relation to depth of Discharge



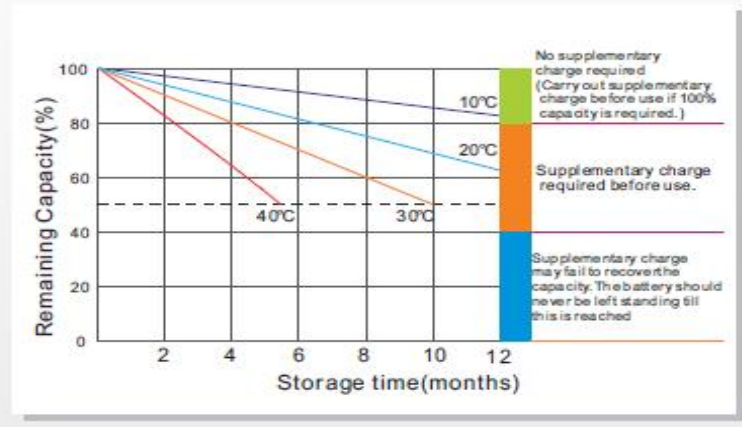
### Temperature effects on Capacity



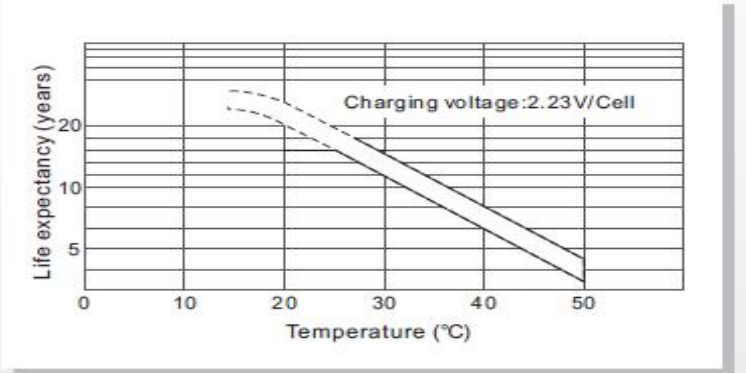
### Relationship between charging voltage and temperature



### 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)