



# Holy Enterprise Limited

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

## Specification

6-FM-7 12V7AH/20HR

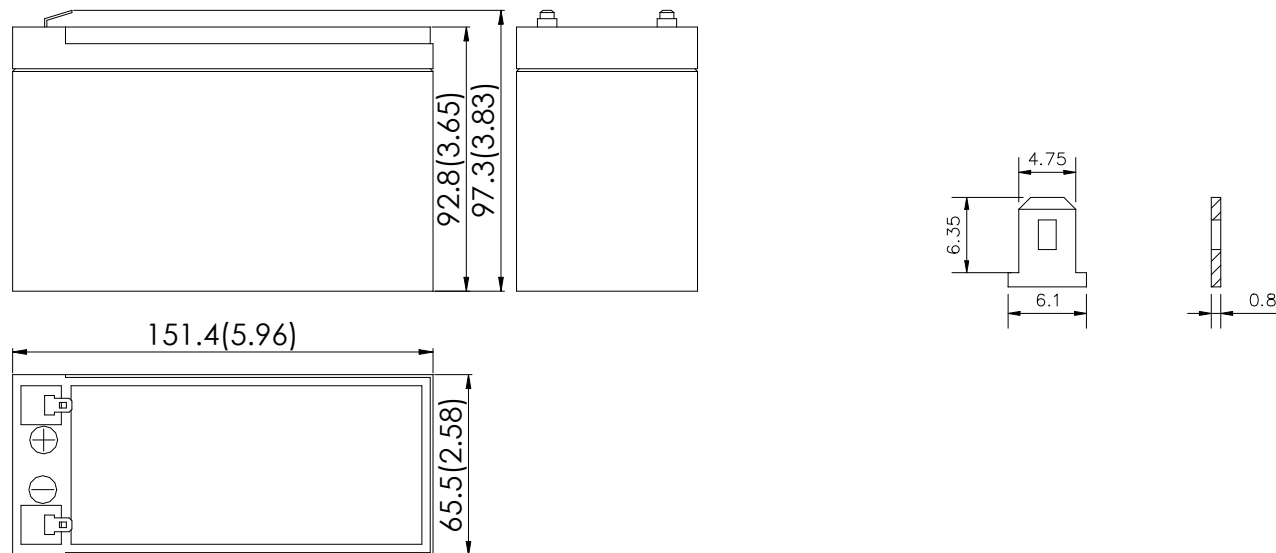
Cells Per Unit	6
Voltage Per Unit	12
Capacity	7AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.2.05 kg (Tolerance±3%)
Max. Discharge Current	70 A(5sec)
Internal Resistance	Approx 36 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	2.10A
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)

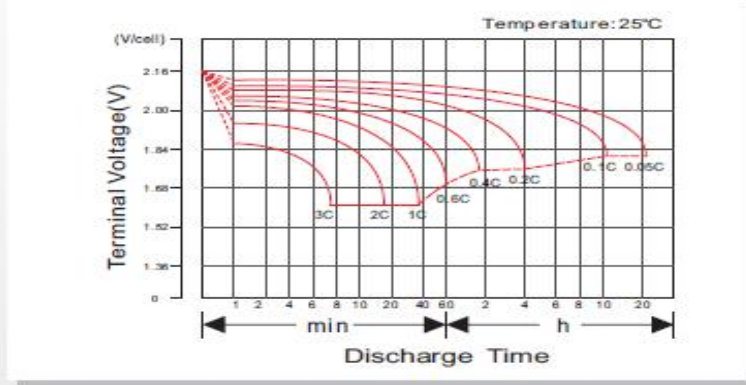
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	17.00	13.26	10.34	6.47	3.70	2.29	1.75	1.428	1.190	0.802	0.654	0.347
1.75V/cell	19.37	14.65	11.19	6.77	3.85	2.37	1.81	1.470	1.221	0.816	0.663	0.350
1.70V/cell	21.62	16.00	12.03	7.08	4.00	2.46	1.86	1.508	1.253	0.827	0.672	0.354
1.65V/cell	23.96	17.38	12.84	7.41	4.13	2.54	1.91	1.551	1.286	0.840	0.682	0.359
1.60V/cell	25.76	18.39	13.43	7.72	4.28	2.63	1.97	1.594	1.320	0.850	0.690	0.364

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

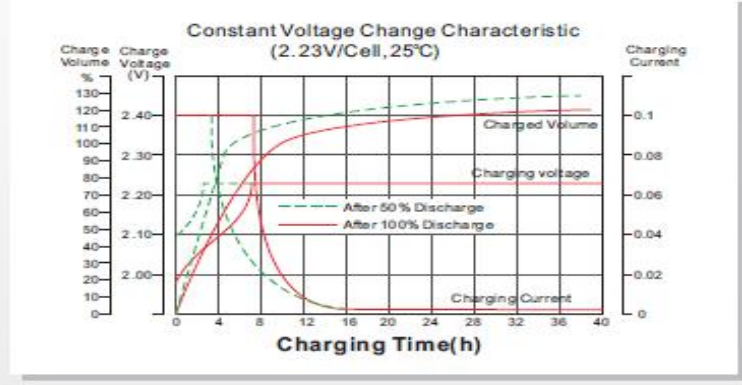
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	182.70	145.38	114.90	73.44	42.75	26.54	20.39	16.692	13.956	9.480	7.758	4.116
1.75V/cell	203.70	157.86	122.70	76.02	44.20	27.38	20.96	17.124	14.274	9.624	7.848	4.152
1.70V/cell	222.42	169.38	129.96	78.72	45.59	28.25	21.51	17.508	14.592	9.738	7.944	4.200
1.65V/cell	241.02	180.72	136.68	81.54	46.84	29.05	22.01	17.928	14.934	9.870	8.052	4.242
1.60V/cell	256.26	187.62	140.88	84.06	48.22	29.86	22.62	18.360	15.270	9.960	8.142	4.308

All mentioned values are average values.

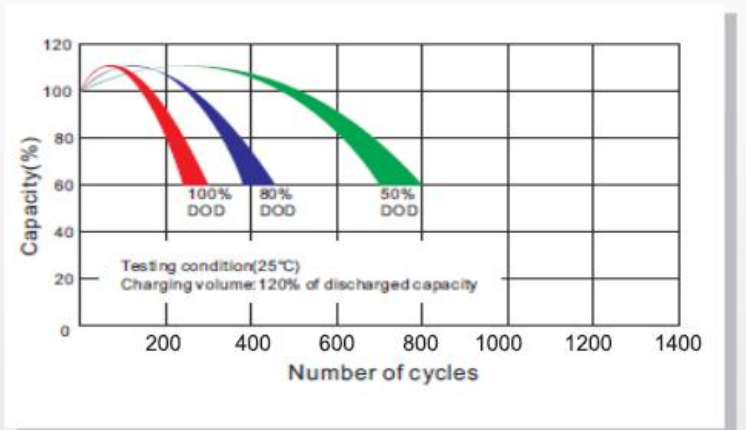
### Discharge Characteristics Curve



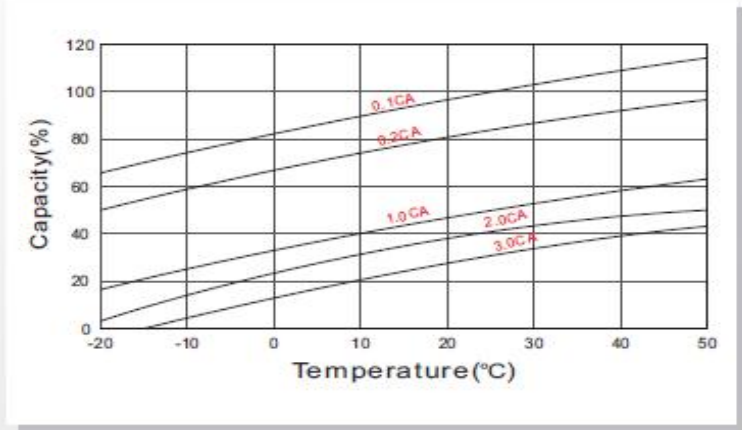
### Charging Characteristics Curve



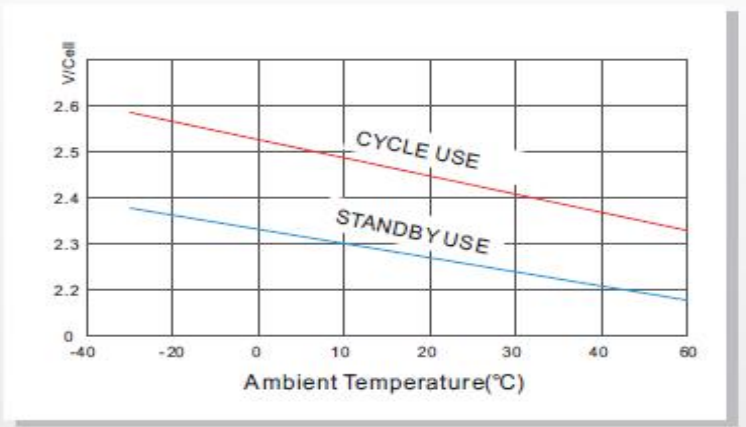
### Cycle life in relation to depth of Discharge



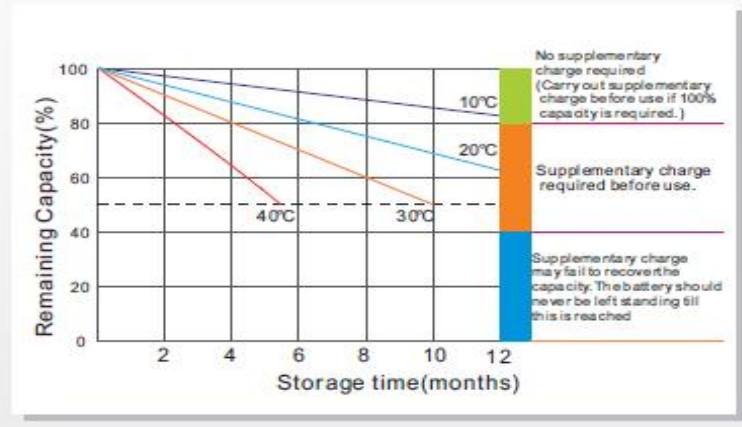
### Temperature effects on Capacity



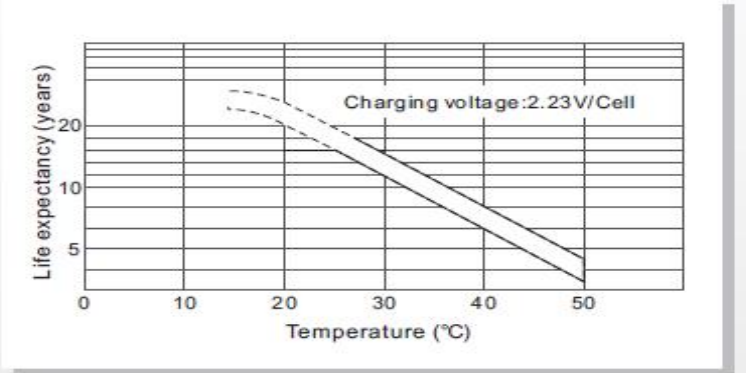
### Relationship between charging voltage and temperature



### 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)