



# Holy Enterprise Limited

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

## Specification

3-FM-7 6V7AH/20HR

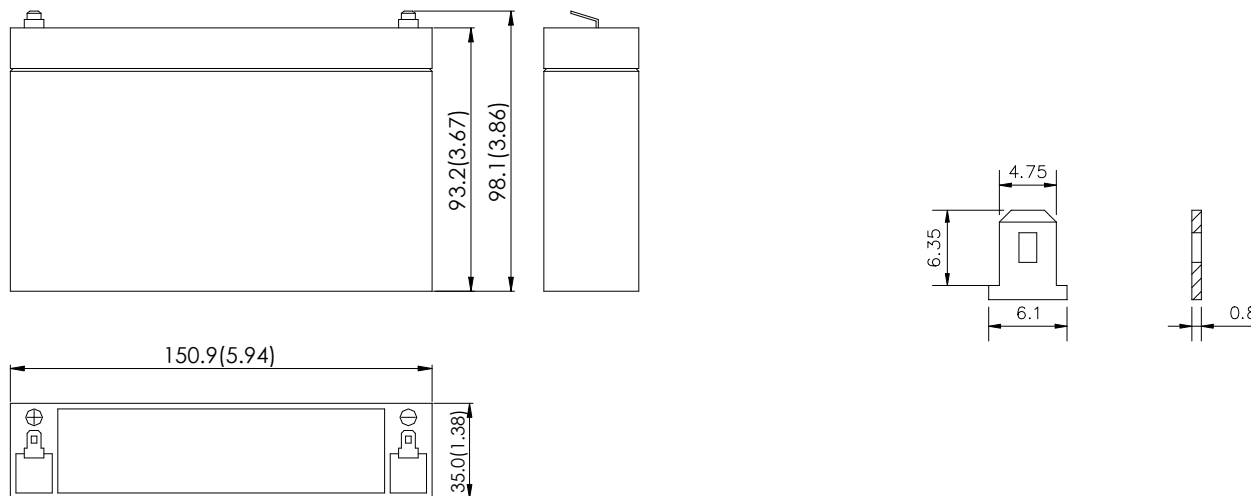
Cells Per Unit	3
Voltage Per Unit	6
Capacity	7.0AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.1.11 kg (Tolerance±3%)
Max. Discharge Current	70A(5sec)
Internal Resistance	Approx 15.5 mΩ
Operating Temperature Range	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	2.10A
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: 151(L) ×35(W) ×93(H) (Total 98 mm)



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

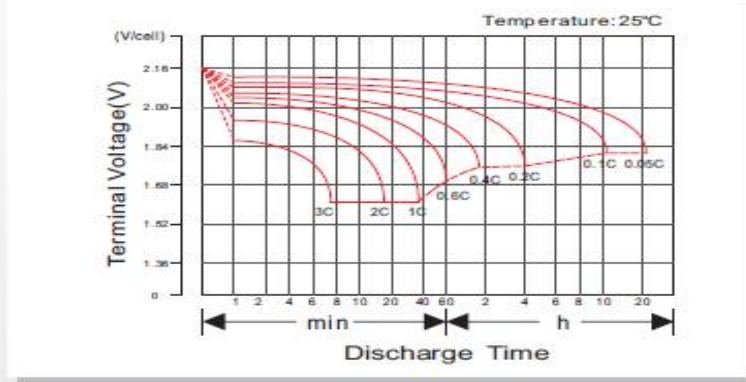
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	17.53	13.53	10.44	6.53	3.70	2.29	1.75	1.428	1.190	0.802	0.654	0.347
1.75V/cell	19.96	14.95	11.31	6.84	3.85	2.37	1.81	1.470	1.221	0.816	0.663	0.350
1.70V/cell	22.28	16.33	12.15	7.15	4.00	2.46	1.86	1.508	1.253	0.827	0.672	0.354
1.65V/cell	24.70	17.74	12.97	7.48	4.13	2.54	1.91	1.551	1.286	0.840	0.682	0.359
1.60V/cell	26.56	18.77	13.57	7.79	4.28	2.63	1.97	1.594	1.320	0.850	0.690	0.364

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

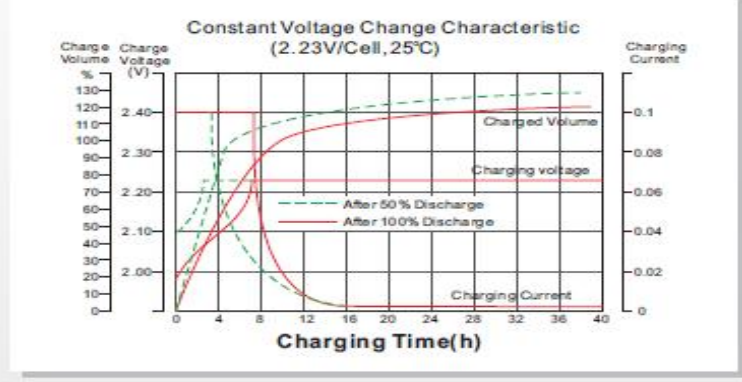
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	94.17	74.19	58.02	37.08	21.38	13.27	10.19	8.346	6.978	4.740	3.879	2.058
1.75V/cell	105.00	80.55	61.95	38.40	22.10	13.69	10.48	8.562	7.137	4.812	3.924	2.076
1.70V/cell	114.66	86.43	65.64	39.78	22.80	14.12	10.76	8.754	7.296	4.869	3.972	2.100
1.65V/cell	124.26	92.19	69.03	41.19	23.42	14.52	11.01	8.964	7.467	4.935	4.026	2.121
1.60V/cell	132.09	95.73	71.16	42.45	24.11	14.93	11.31	9.180	7.635	4.980	4.071	2.154

All mentioned values are average values.

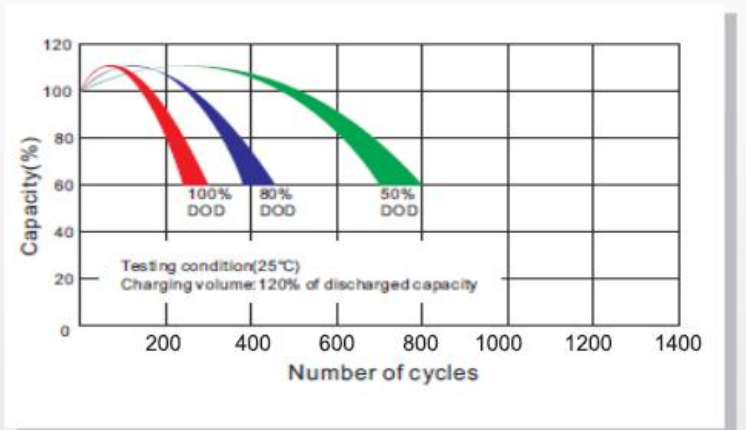
### Discharge Characteristics Curve



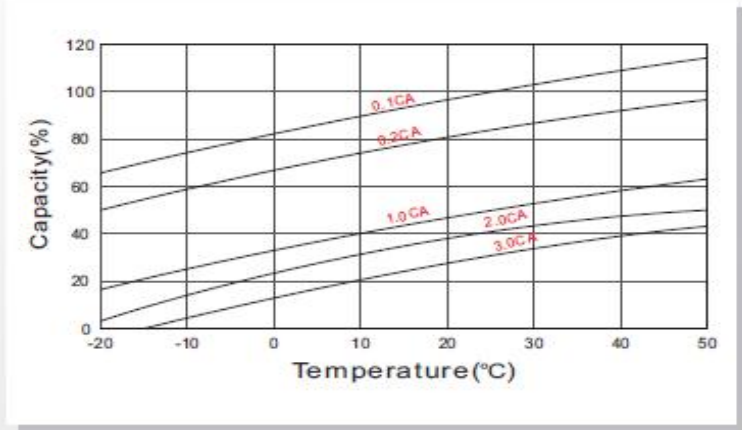
### Charging Characteristics Curve



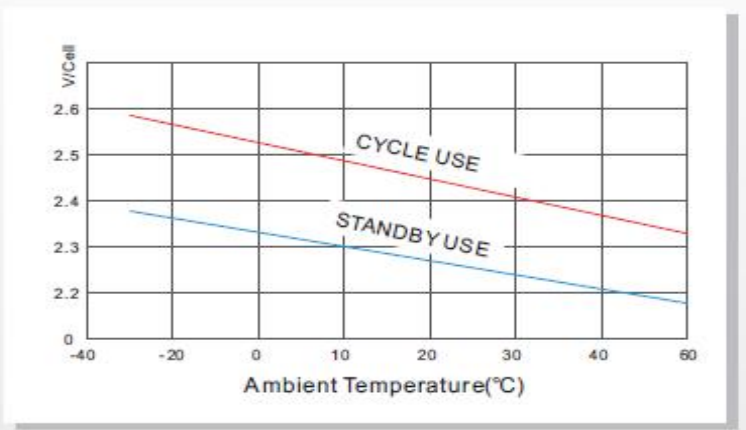
### Cycle life in relation to depth of Discharge



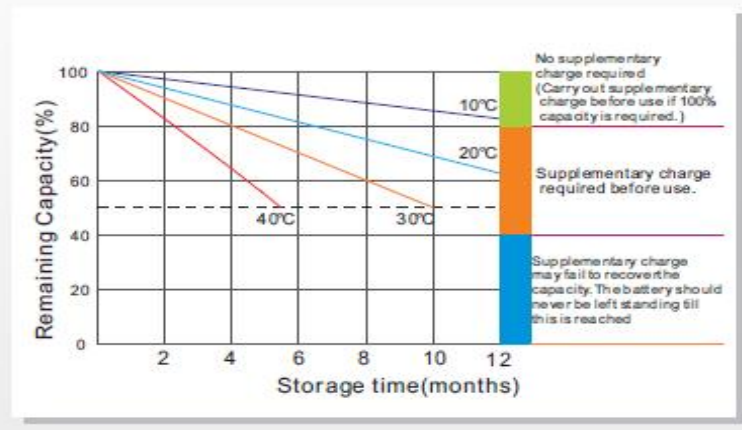
### Temperature effects on Capacity



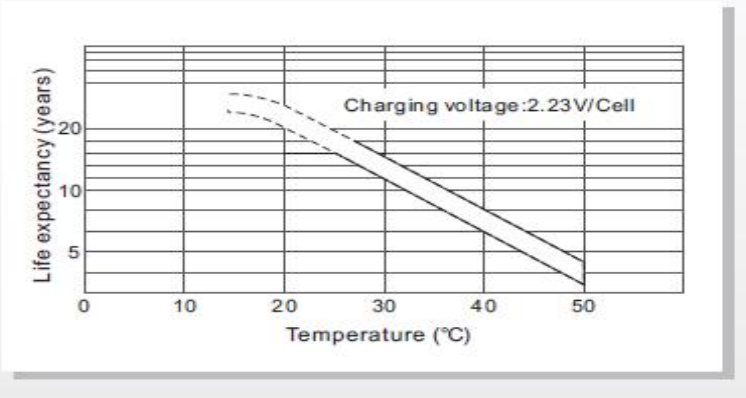
### Relationship between charging voltage and temperature



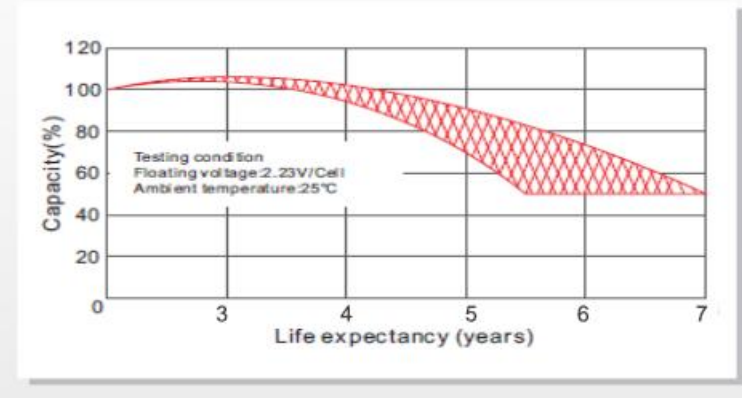
### Self-discharge Characteristics



### 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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