



# Holy Enterprise Limited

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

## Specification

6-FM-10 12V10AH/20HR

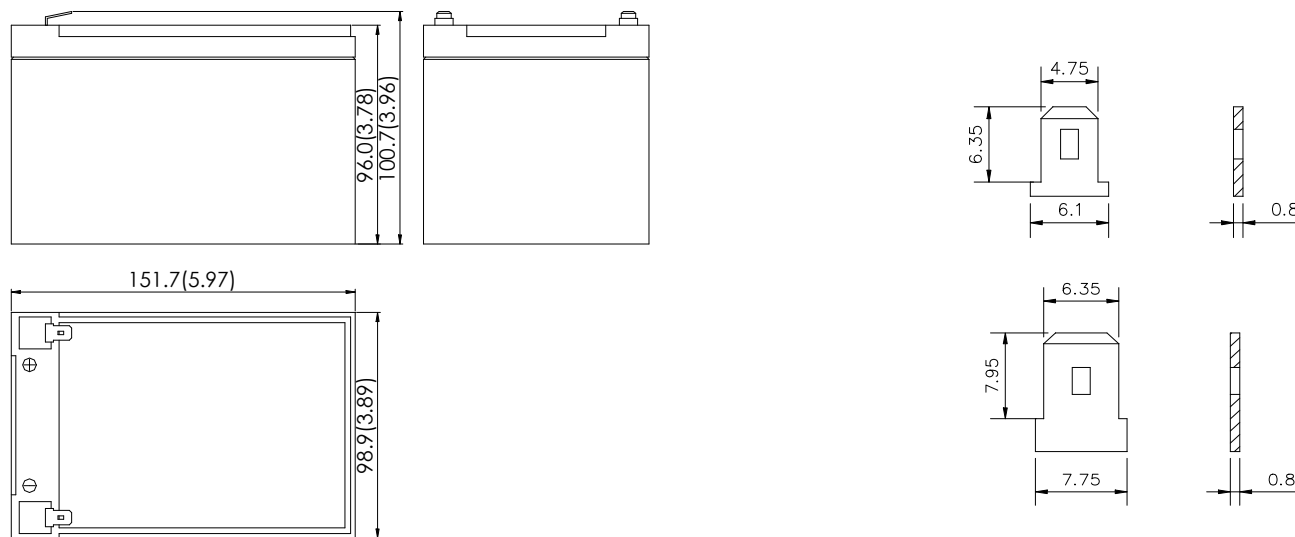
Cells Per Unit	6
Voltage Per Unit	12
Capacity	10AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.3.15 kg (Tolerance±3%)
Max. Discharge Current	100 A(5sec)
Internal Resistance	Approx: 18 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	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/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) ×98(W) ×96(H) (Total 102 mm)



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

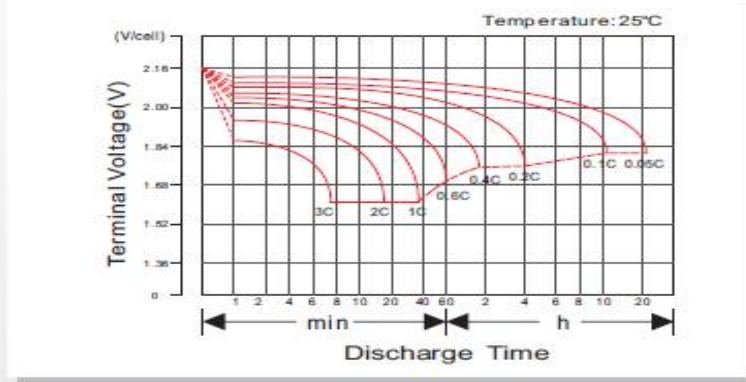
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	25.04	19.33	14.91	9.33	5.29	3.27	2.50	2.04	1.700	1.146	0.935	0.495
1.75V/cell	28.52	21.35	16.15	9.76	5.50	3.39	2.58	2.10	1.745	1.166	0.947	0.500
1.70V/cell	31.83	23.33	17.36	10.22	5.71	3.51	2.66	2.16	1.790	1.182	0.959	0.506
1.65V/cell	35.28	25.34	18.53	10.69	5.90	3.63	2.73	2.22	1.837	1.200	0.974	0.512
1.60V/cell	37.94	26.81	19.38	11.13	6.11	3.75	2.82	2.28	1.886	1.214	0.986	0.521

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

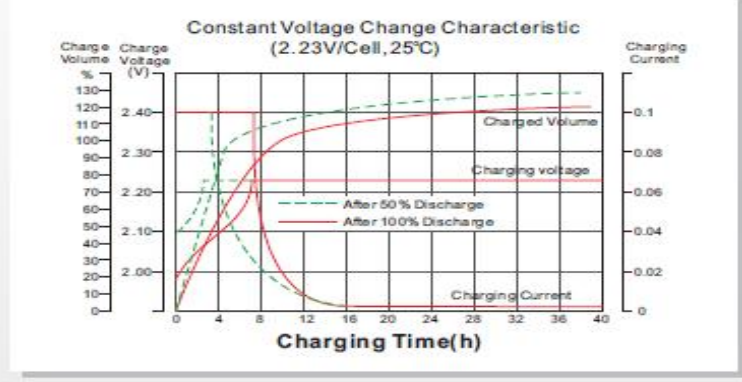
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	269.0	211.9	165.8	106.0	61.08	37.91	29.13	23.84	19.94	13.542	11.082	5.880
1.75V/cell	300.0	230.1	177.1	109.7	63.12	39.13	29.94	24.46	20.39	13.746	11.208	5.928
1.70V/cell	327.6	247.0	187.5	113.6	65.16	40.35	30.73	25.01	20.85	13.908	11.346	5.994
1.65V/cell	355.0	263.4	197.3	117.7	66.90	41.50	31.45	25.61	21.33	14.094	11.502	6.060
1.60V/cell	377.4	273.5	203.3	121.3	68.88	42.66	32.32	26.23	21.82	14.226	11.628	6.150

All mentioned values are average values.

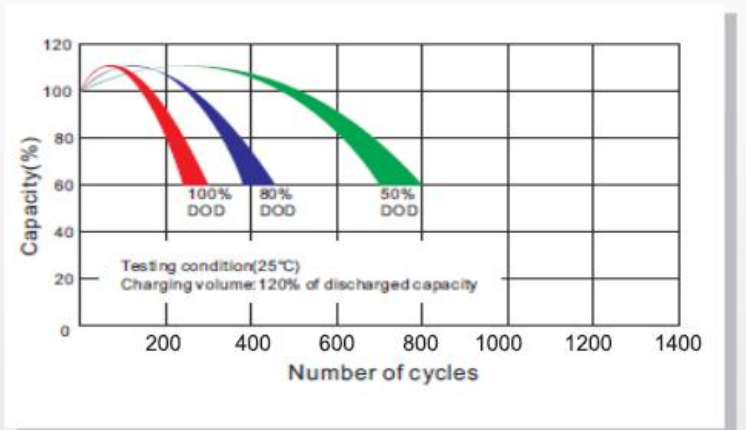
### Discharge Characteristics Curve



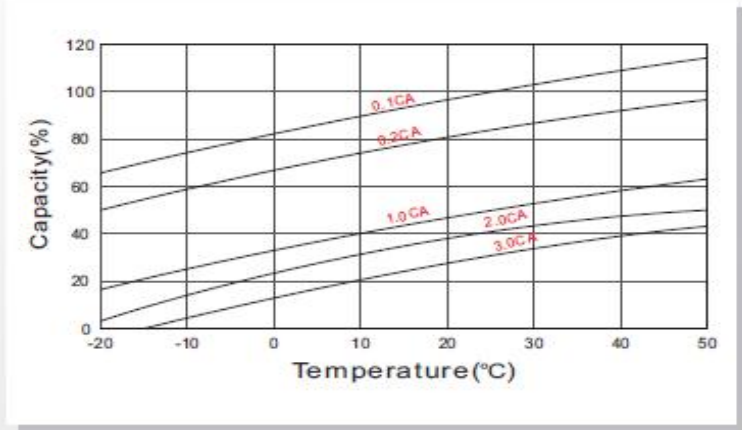
### Charging Characteristics Curve



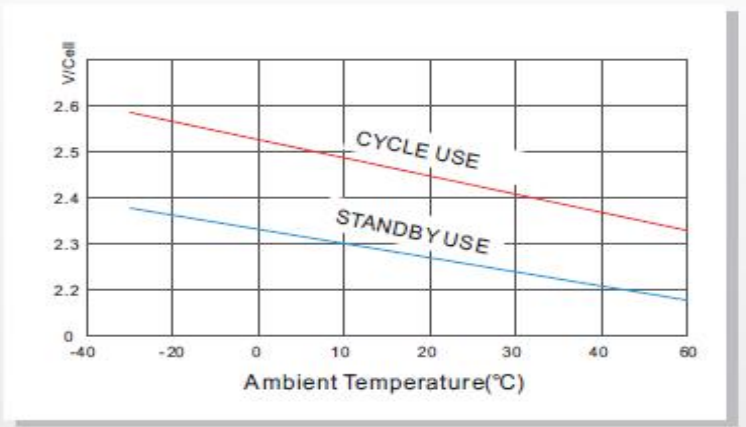
### Cycle life in relation to depth of Discharge



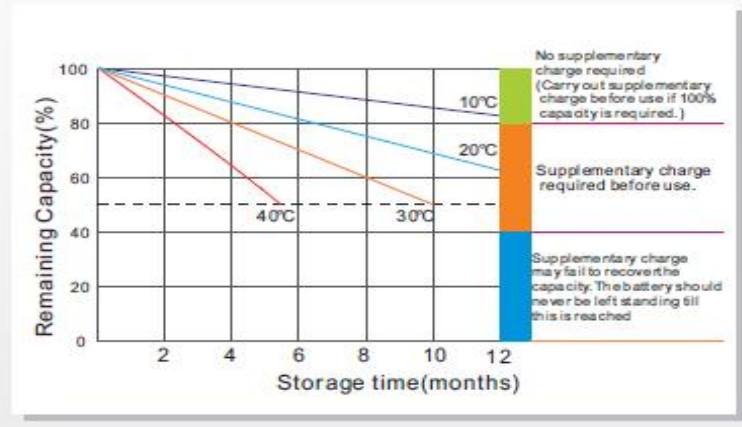
### Temperature effects on Capacity



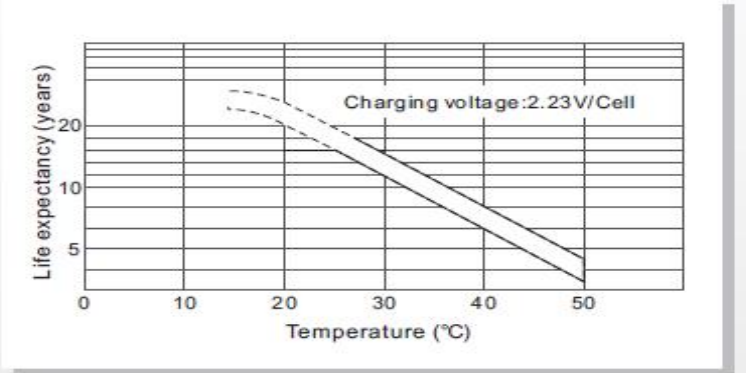
### Relationship between charging voltage and temperature



### 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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