



# Holy Enterprise Limited

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

## Specification

**6-FM-55 12V55AH/20HR**

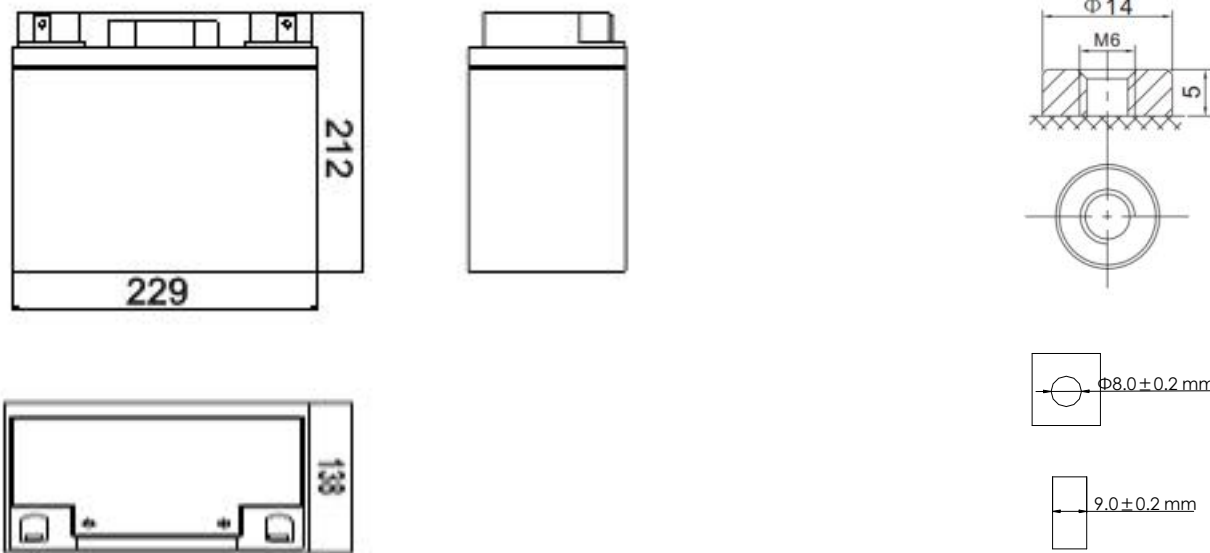
Cells Per Unit	6
Voltage Per Unit	12
Capacity	55AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.17.5kg (Tolerance±3%)
Max. Discharge Current	500 A(5sec)
Internal Resistance	Approx 7.5 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	16.5A
Equalization and Cycle service	2.35 to 2.40 VDC /unit Average at 25°C
Terminal	Terminal: NB/B



## Application

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

**Dimension: 229(L) ×138 (W) ×212 (H) (Total 212 mm)**



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

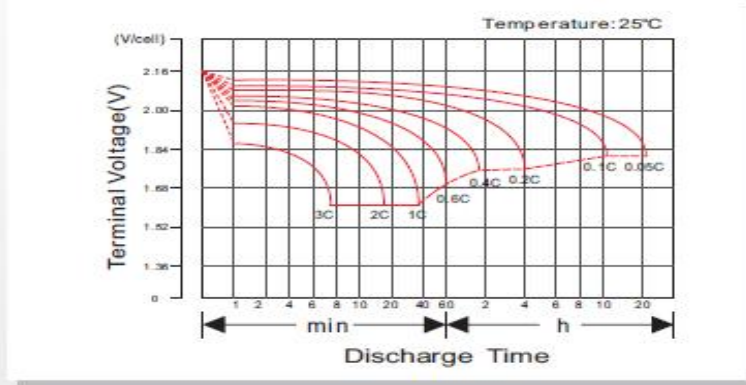
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	140.7	104.8	89.5	60.7	34.10	20.52	14.14	11.72	9.87	6.747	5.109	2.586
1.75V/cell	155.9	114.9	97.1	61.7	34.93	20.90	14.54	12.00	10.05	6.861	5.165	2.643
1.70V/cell	173.7	124.5	102.0	62.2	35.26	21.06	14.59	12.12	10.17	6.919	5.221	2.699
1.65V/cell	179.0	129.1	103.6	63.3	35.59	21.22	14.71	12.17	10.24	6.976	5.277	2.756
1.60V/cell	184.3	135.7	105.8	64.5	35.75	21.38	14.76	12.23	10.30	7.033	5.333	2.813

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

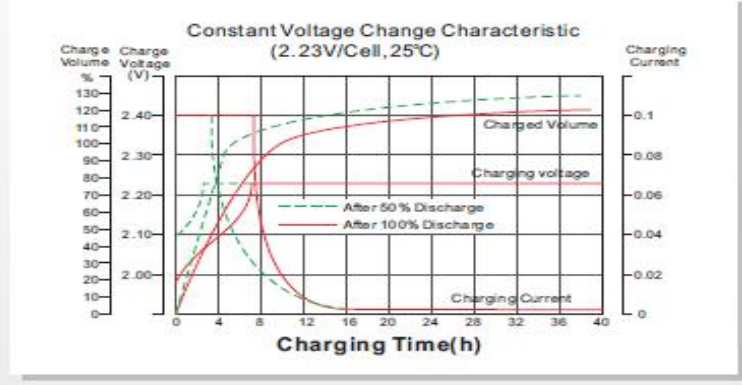
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	1562	1171	989	693.2	397.8	244.2	169.6	140.6	118.5	80.96	67.31	34.63
1.75V/cell	1715	1270	1070	704.5	405.3	247.3	174.3	143.9	120.6	82.34	67.98	35.31
1.70V/cell	1884	1364	1122	709.4	408.9	249.1	175	145.3	122.1	83.02	68.65	35.99
1.65V/cell	1906	1401	1135	714.4	412.1	250.7	175.7	145.6	122.5	83.57	69.27	36.67
1.60V/cell	1944	1445	1153	723.3	413.1	252	175.7	145.8	122.8	83.97	69.71	37.32

All mentioned values are average values.

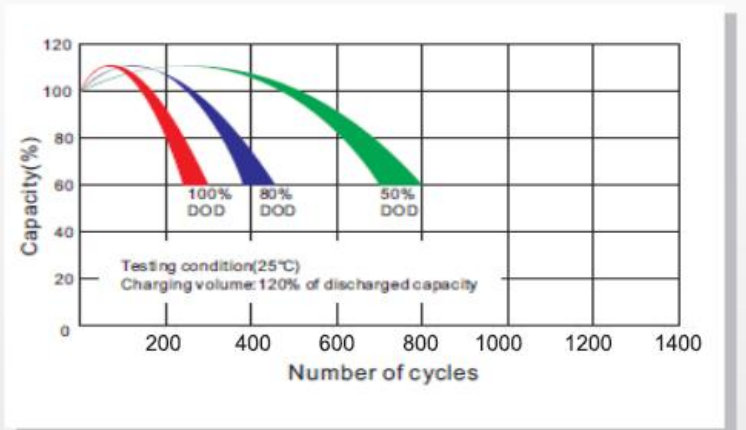
### Discharge Characteristics Curve



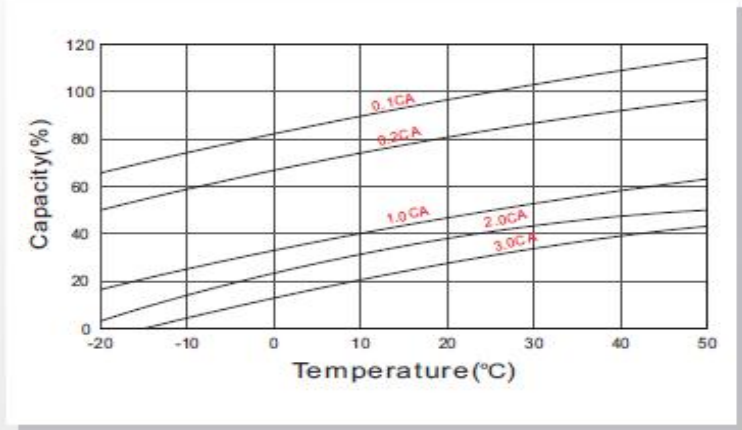
### Charging Characteristics Curve



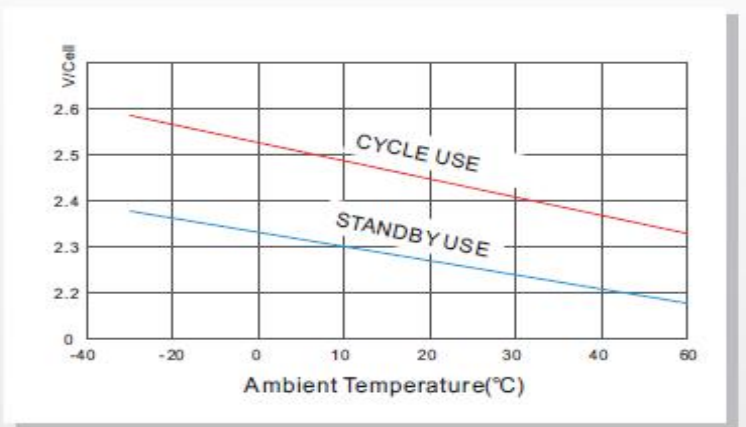
### Cycle life in relation to depth of Discharge



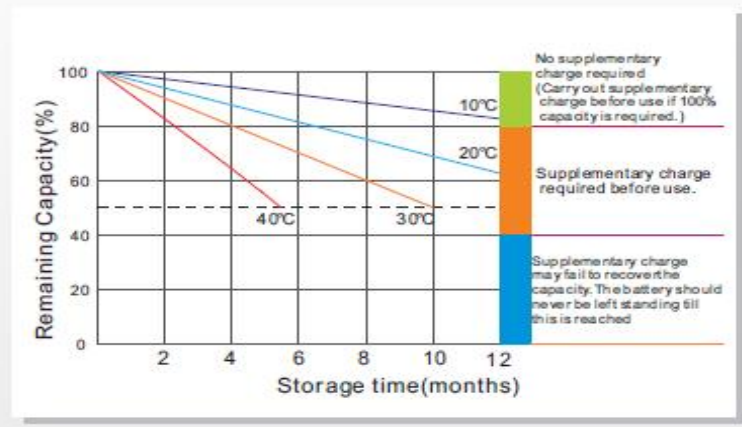
### Temperature effects on Capacity



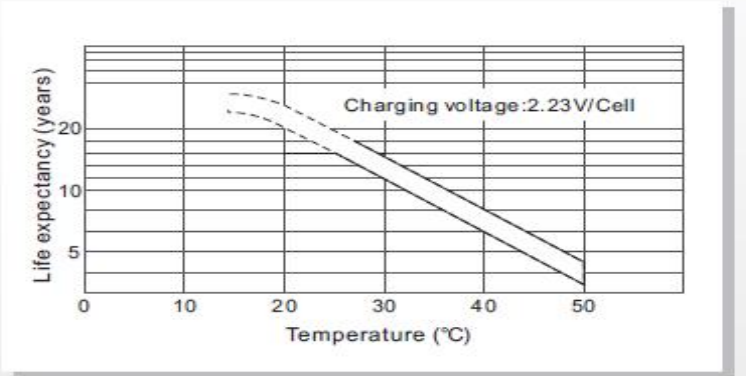
### Relationship between charging voltage and temperature



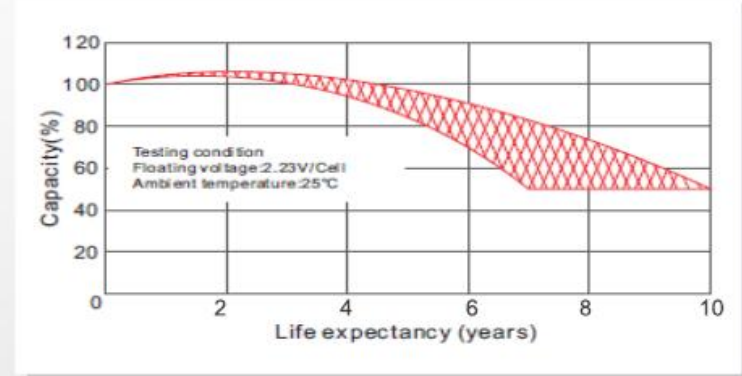
### Self-discharge Characteristics



### 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)