



# Holy Enterprise Limited

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

## Specification

6-GFM-160 12V160AH/10HR

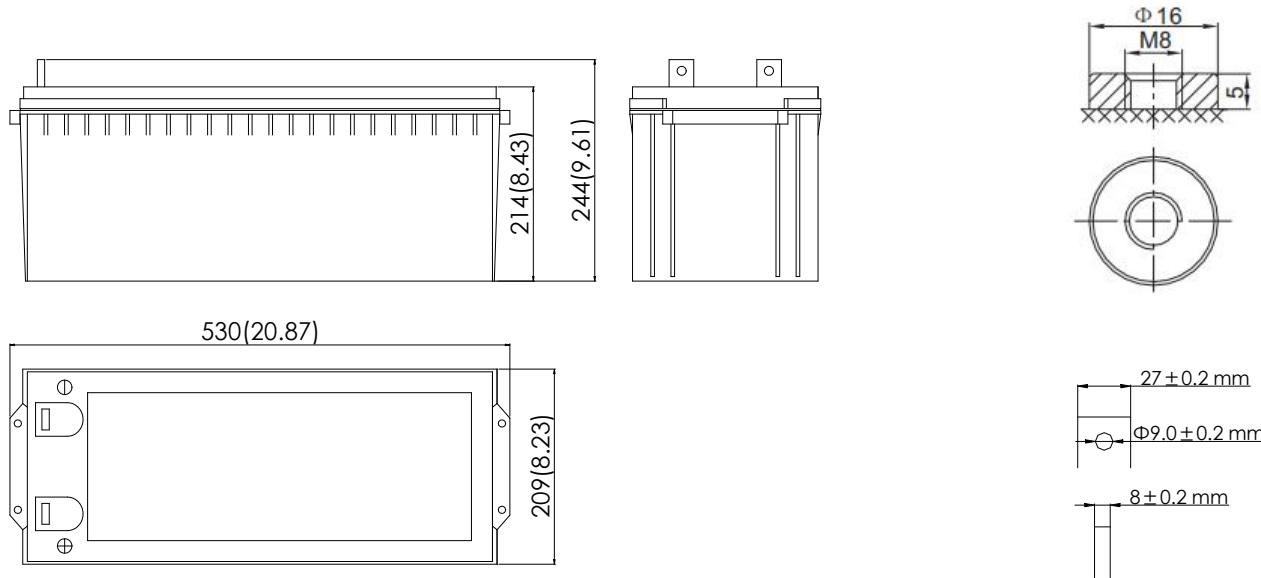
Cells Per Unit	6
Voltage Per Unit	12
Capacity	160AH@10hr-rate to 1.8V per cell @ 25°C
Weight	Approx.48.5kg (Tolerance±3%)
Max. Discharge Current	1600 A(5sec)
Internal Resistance	Approx.4.5 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	37.5A
Equalization and Cycle service	2.35 to 2.40 VDC /unit Average at 25°C
Terminal	Terminal: B/NB



## Application

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

Dimension: 530(L) ×206 (W) ×216 (H) (Total 221/244 mm)



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

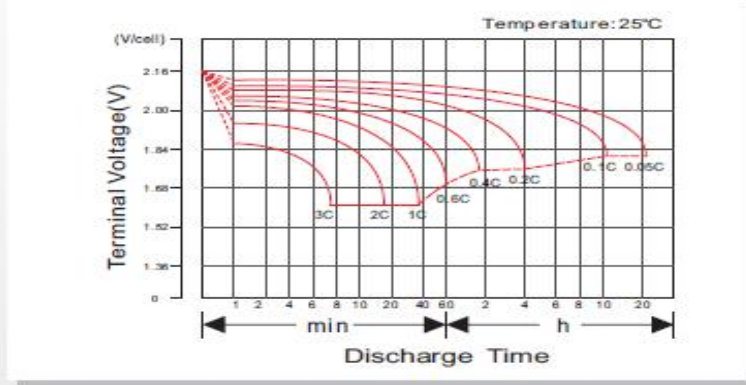
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	248.3	214.7	144	84.6	50.7	40	31.8	27.2	19.1	16	8.4
1.75V/cell	274.3	232.5	150.6	88	52.6	41.3	32.7	27.9	19.5	16.2	8.48
1.70V/cell	299.6	249.8	157.6	91.3	54.5	42.5	33.6	28.6	19.7	16.4	8.58
1.65V/cell	325.5	266.7	164.9	94.4	56.4	43.7	34.5	29.4	20.1	16.7	8.69
1.60V/cell	344.4	279	171.7	97.8	58.2	45.1	35.5	30.2	20.3	16.9	8.83

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

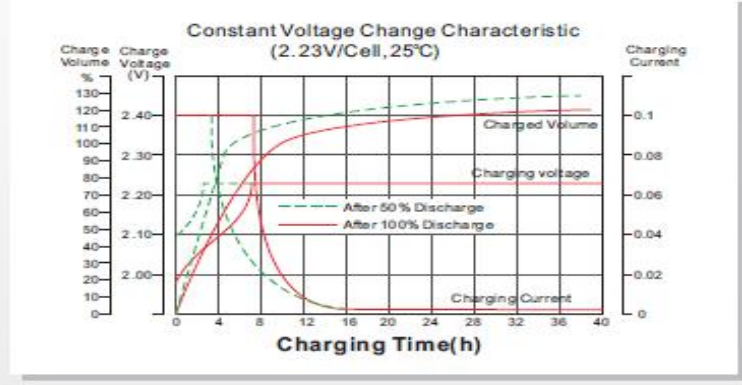
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	2722.2	2386.2	1633.8	977.4	588.6	466.2	371.4	319.2	226.2	189.6	99.6
1.75V/cell	2955.6	2548.2	1692.6	1010.4	607.2	479.4	381.0	326.4	229.8	192.0	100.8
1.70V/cell	3172.2	2698.8	1752.6	1042.2	626.4	492.0	389.4	333.6	232.2	194.4	101.4
1.65V/cell	3383.4	2839.2	1815.6	1070.4	644.4	503.4	399.0	341.4	235.8	196.8	102.6
1.60V/cell	3513.0	2926.2	1871.4	1102.2	662.4	517.2	408.6	349.2	237.6	199.2	104.4

All mentioned values are average values.

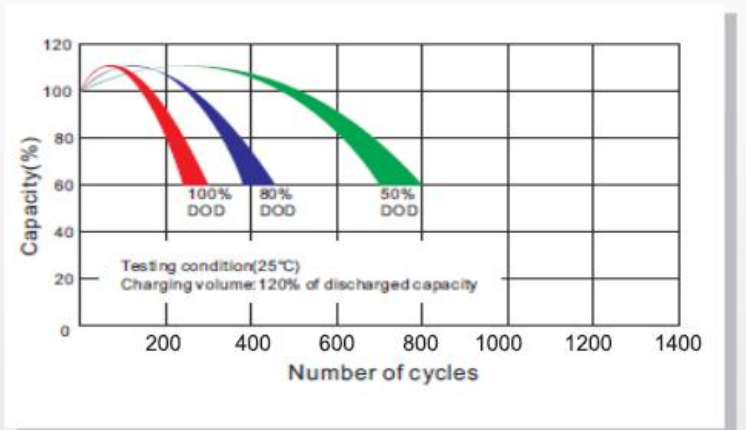
### Discharge Characteristics Curve



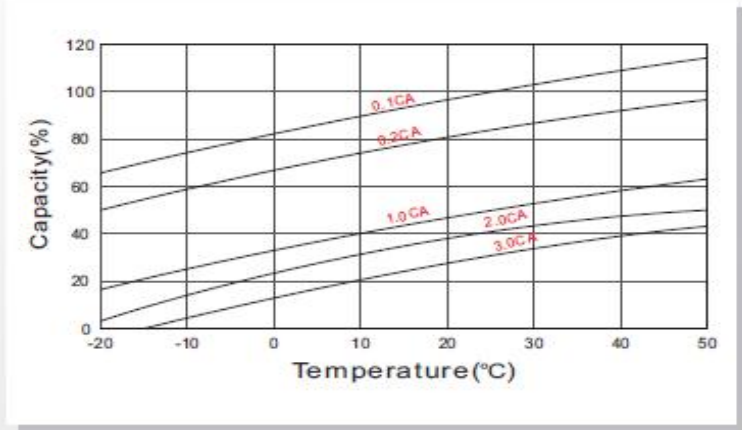
### Charging Characteristics Curve



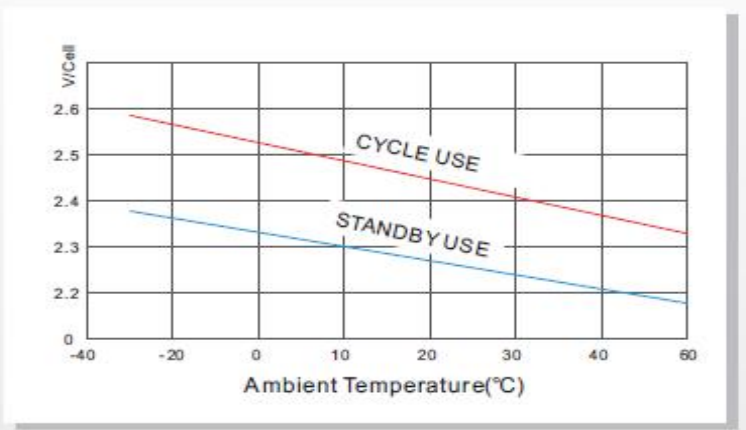
### Cycle life in relation to depth of Discharge



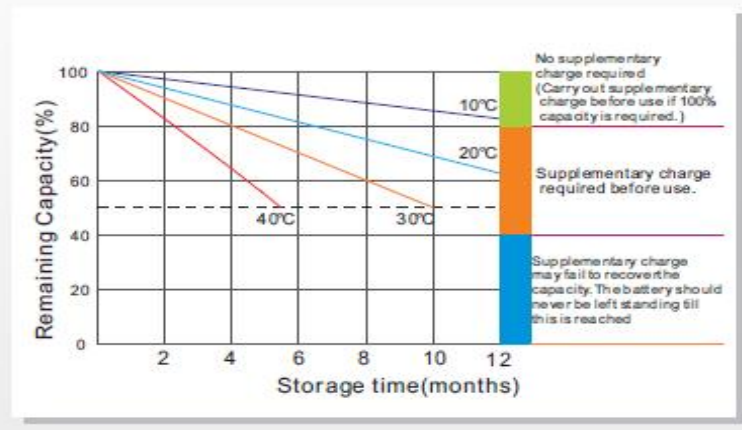
### Temperature effects on Capacity



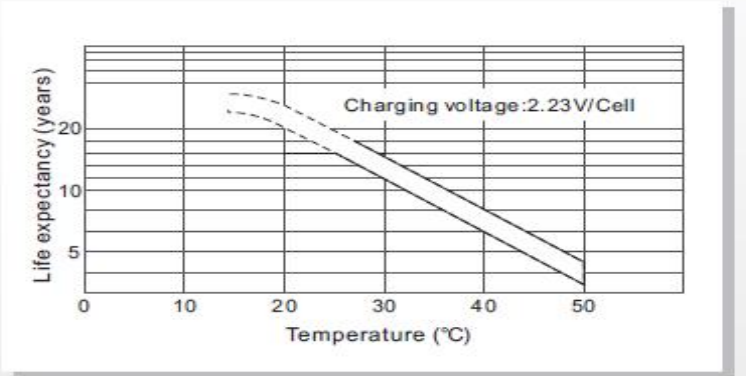
### Relationship between charging voltage and temperature



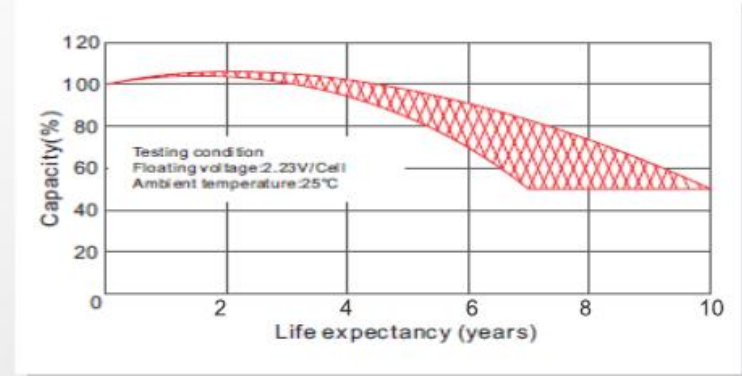
### Self-discharge Characteristics



### 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)