



# Holy Enterprise Limited

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

## Specification

## 6FM-24DC 12V24AH/20HR

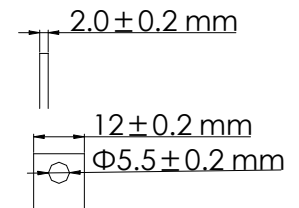
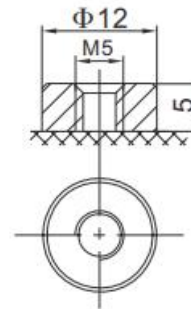
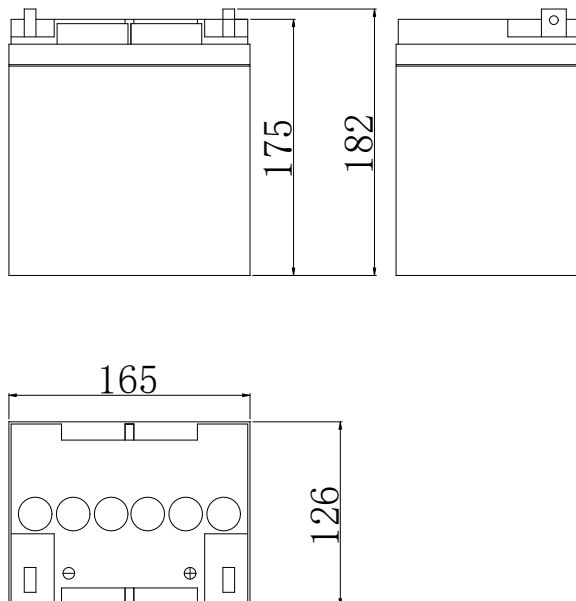
Cells Per Unit	6
Voltage Per Unit	12
Capacity	24AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.: 8.2kg (Tolerance±3%)
Max. Discharge Current	240 A(5sec)
Internal Resistance	Approx 15 mΩ
Operating Temperature Range	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature Range	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	6.0A
Equalization and Cycle service	2.35 to 2.40 VDC /unit Average at 25°C
Terminal	Terminal: NB/B



## Application

Uninterruptible Power System;  
Communication Equipments;  
Solar Power Systems;  
Solar Power Street Light;  
Wind Power Systems

**Dimension: 165(L) ×126(W) ×174(H) (Total 175/182 mm)**



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

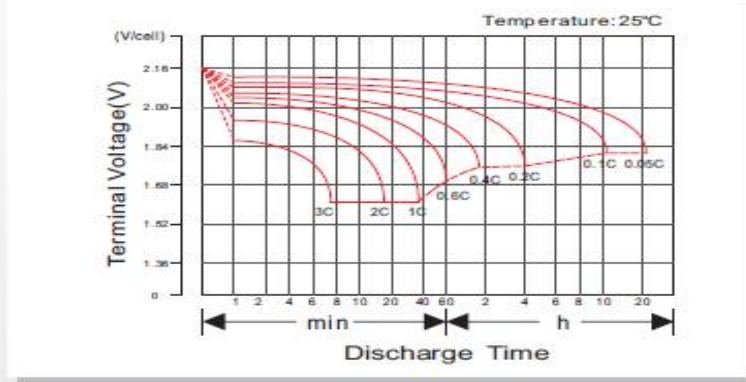
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	54.24	42.75	33.32	21.07	12.06	7.84	6.00	4.90	4.079	2.750	2.243	1.188
1.75V/cell	61.78	47.22	36.09	22.04	12.54	8.13	6.19	5.04	4.187	2.797	2.272	1.200
1.70V/cell	68.95	51.59	38.78	23.06	13.01	8.43	6.38	5.17	4.295	2.837	2.302	1.215
1.65V/cell	76.42	56.04	41.41	24.13	13.45	8.72	6.56	5.32	4.410	2.881	2.338	1.230
1.60V/cell	82.18	59.30	43.31	25.13	13.93	9.00	6.77	5.46	4.527	2.914	2.367	1.250

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

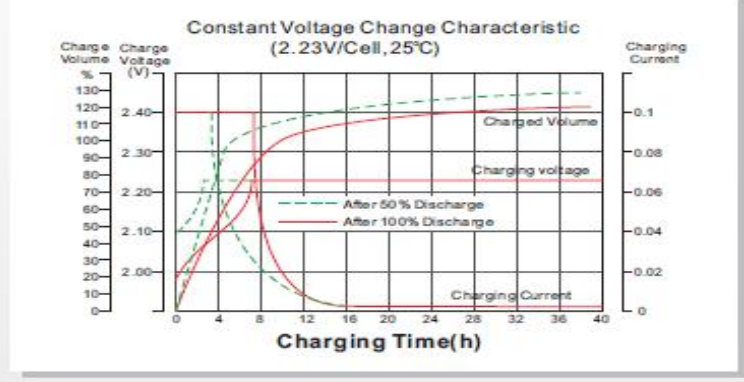
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	582.7	468.7	370.4	239.1	139.26	91.02	69.90	57.24	47.88	32.52	26.58	14.10
1.75V/cell	649.8	508.9	395.6	247.7	143.94	93.90	71.88	58.68	48.96	33.00	26.88	14.22
1.70V/cell	709.8	546.1	419.0	256.5	148.50	96.84	73.74	60.00	50.04	33.36	27.24	14.40
1.65V/cell	769.2	582.5	440.8	265.7	152.52	99.60	75.48	61.44	51.18	33.84	27.60	14.58
1.60V/cell	817.2	604.8	454.3	273.8	157.08	102.36	77.58	62.94	52.38	34.14	27.90	14.76

All mentioned values are average values.

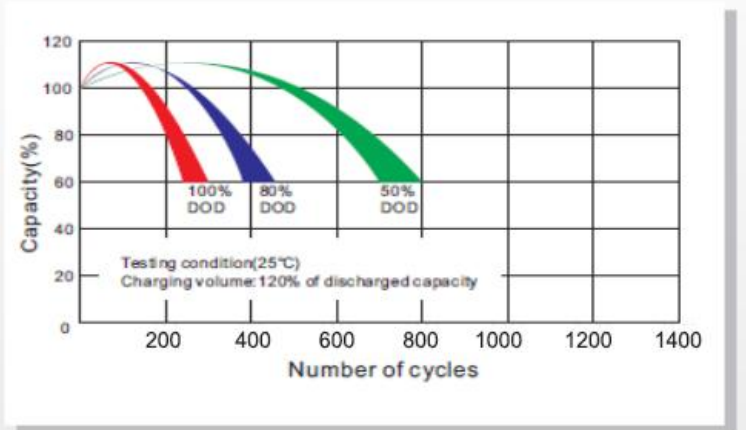
### Discharge Characteristics Curve



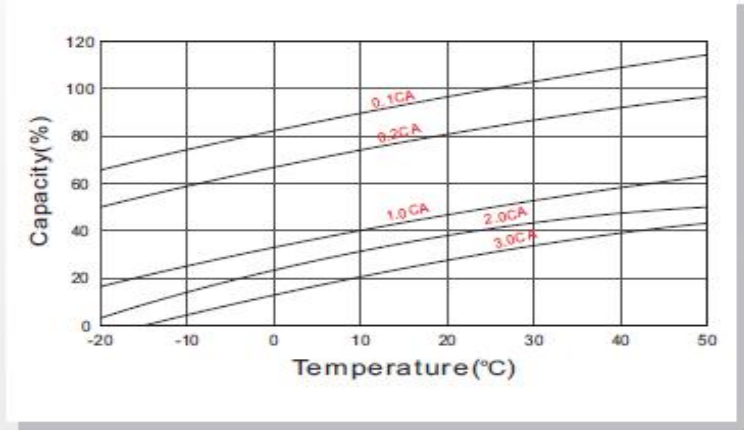
### Charging Characteristics Curve



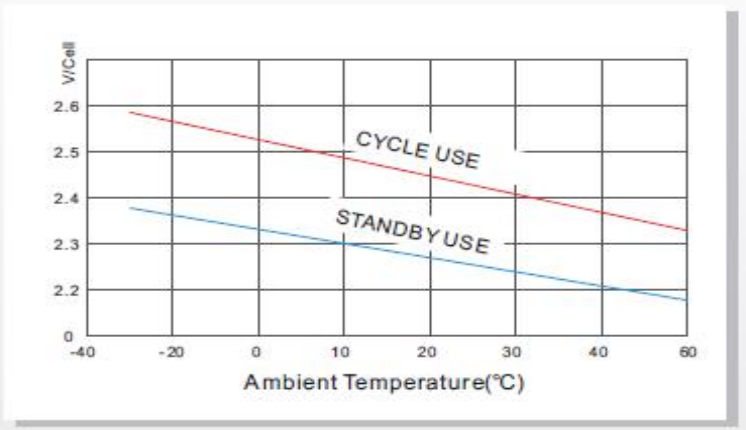
### Cycle life in relation to depth of Discharge



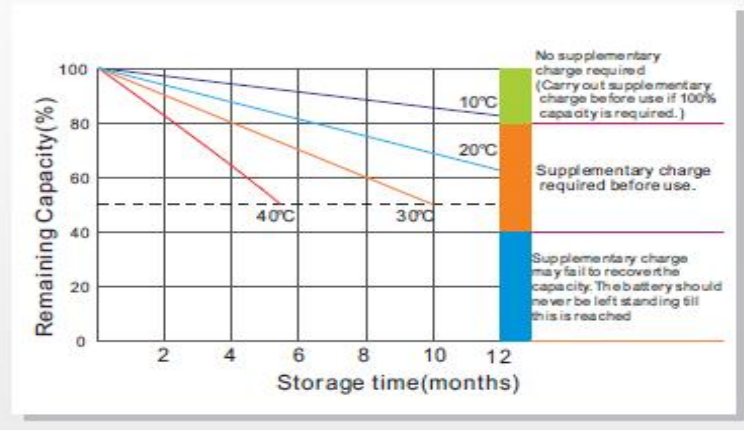
### Temperature effects on Capacity



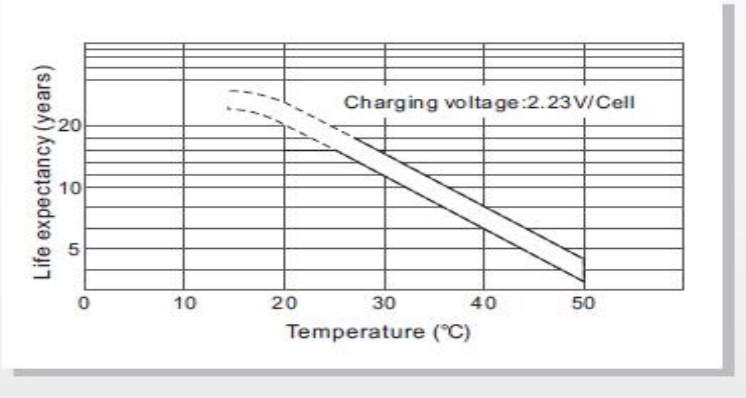
### Relationship between charging voltage and temperature



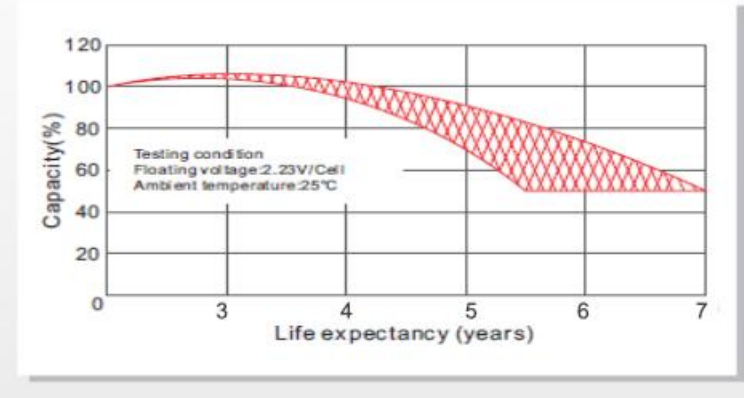
### Self-discharge Characteristics



### 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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