



Holy Enterprise Limited

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

Specification

6-FM-4.5 12V4.5AH/20HR

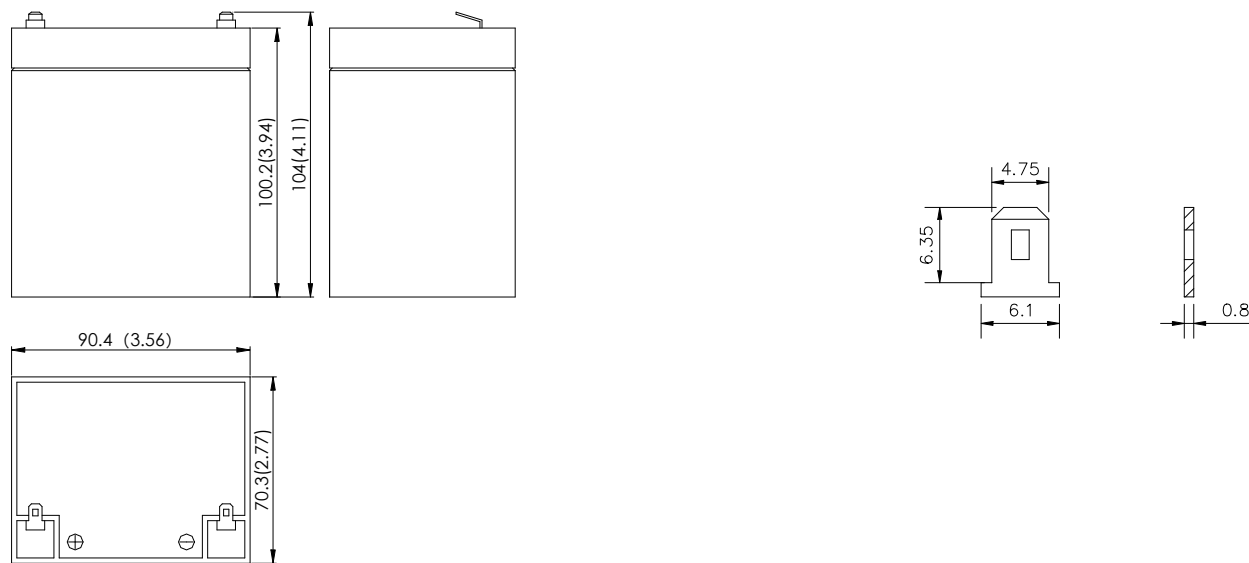
Cells Per Unit	6
Voltage Per Unit	12
Capacity	4.5AH@20hr-rate to 1.8V per cell @ 25°C
Weight	Approx.1.48 kg (Tolerance±3%)
Max. Discharge Current	45 A(5sec)
Internal Resistance	Approx 55 mΩ
Operating Temperature	Discharge: -20°C~50°C Charge: 0°C~40°C Storage: -20°C~50°C
Normal Operating Temperature	25±3°C
Float Charging Voltage	2.25 to 2.27 VDC/unit Average at 25°C
Maximum Charging Current	1.35A
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: 90(L) ×70(W) ×100(H) (Total 104 mm)



Constant Current Discharge Characteristics: A(25°C)

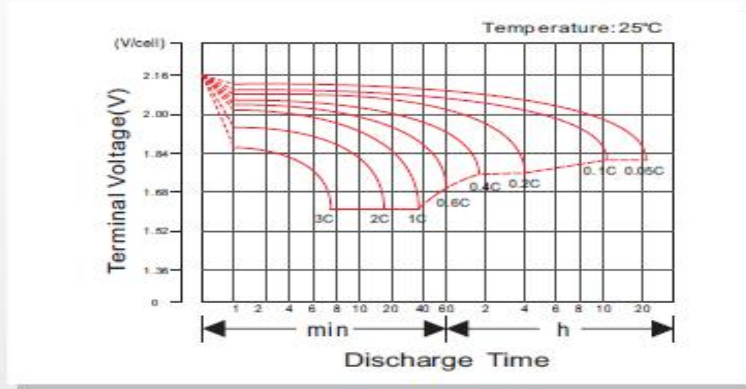
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	11.27	8.70	6.71	4.20	2.38	1.47	1.13	0.918	0.765	0.516	0.421	0.223
1.75V/cell	12.83	9.61	7.27	4.39	2.48	1.53	1.16	0.945	0.785	0.525	0.426	0.225
1.70V/cell	14.33	10.50	7.81	4.60	2.57	1.58	1.20	0.970	0.805	0.532	0.432	0.228
1.65V/cell	15.88	11.40	8.34	4.81	2.66	1.63	1.23	0.997	0.827	0.540	0.438	0.231
1.60V/cell	17.07	12.07	8.72	5.01	2.75	1.69	1.27	1.025	0.849	0.546	0.444	0.234

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

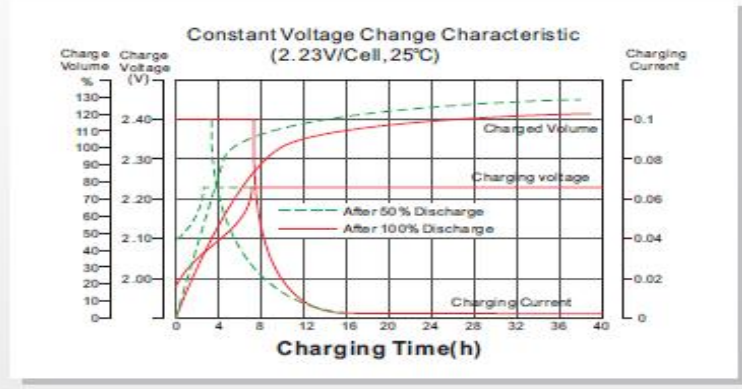
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.80V/cell	121.08	95.40	74.58	47.67	27.48	17.06	13.11	10.728	8.970	6.096	4.986	2.646
1.75V/cell	135.00	103.56	79.68	49.37	28.41	17.60	13.48	11.010	9.174	6.186	5.046	2.670
1.70V/cell	147.42	111.12	84.36	51.13	29.31	18.16	13.83	11.256	9.384	6.258	5.106	2.700
1.65V/cell	159.72	118.56	88.74	52.97	30.11	18.67	14.15	11.526	9.600	6.342	5.178	2.730
1.60V/cell	169.80	123.06	91.50	54.60	31.00	19.19	14.54	11.802	9.816	6.402	5.232	2.766

All mentioned values are average values.

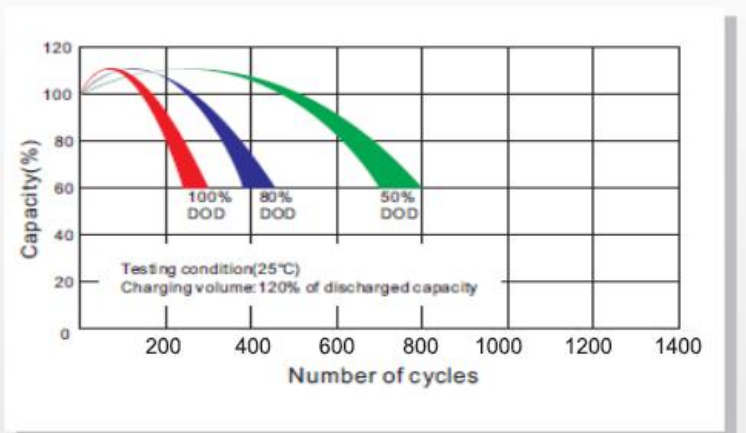
Discharge Characteristics Curve



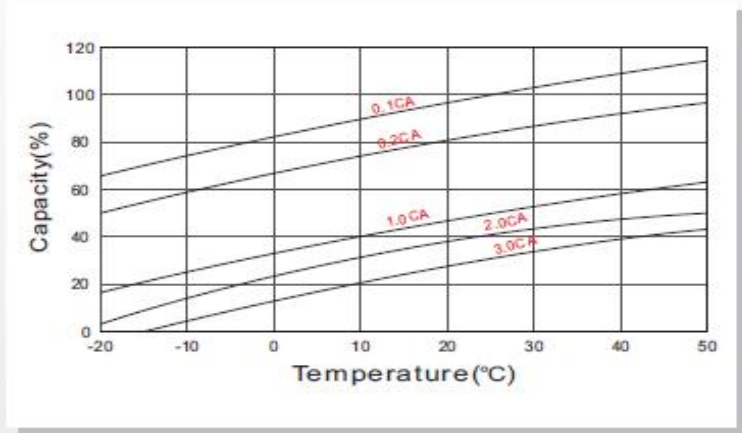
Charging Characteristics Curve



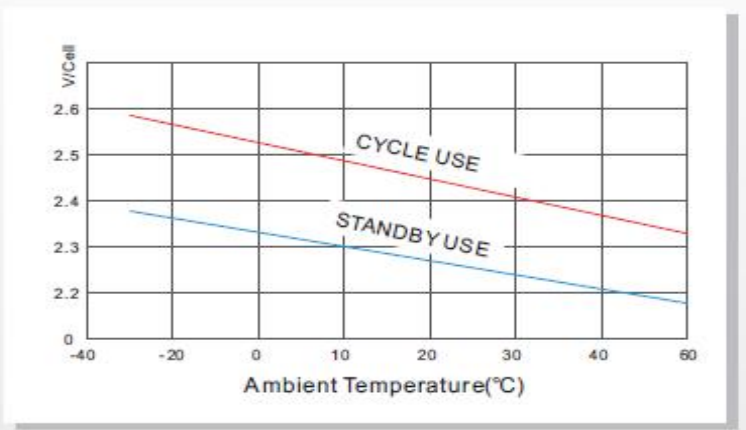
Cycle life in relation to depth of Discharge



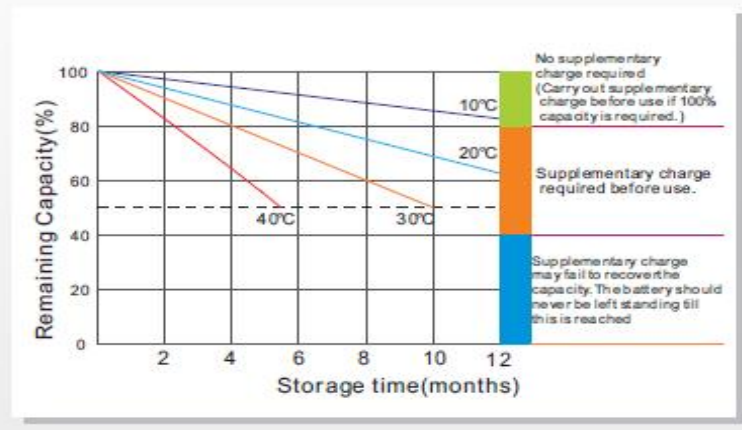
Temperature effects on Capacity



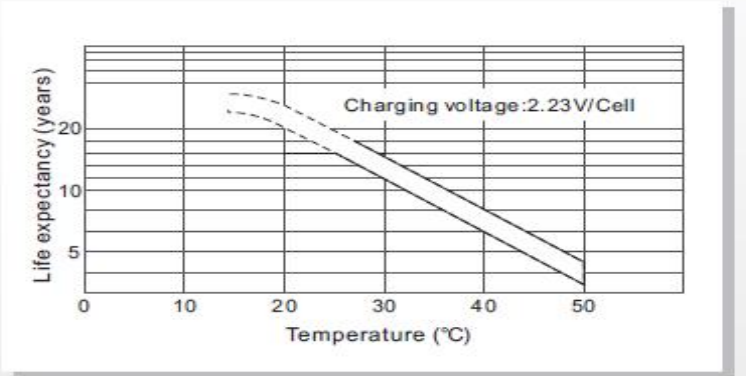
Relationship between charging voltage and temperature



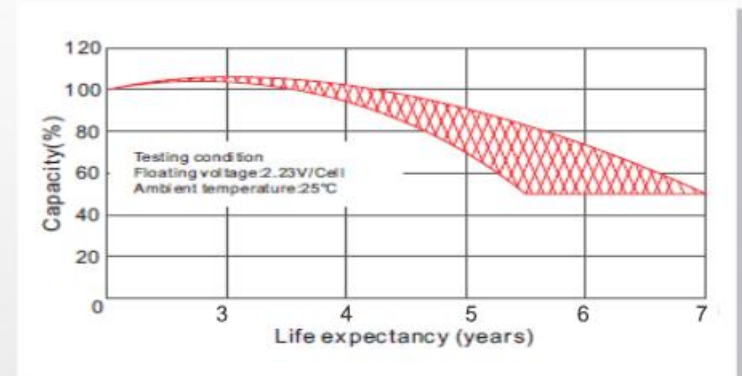
Self-discharge Characteristics



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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