

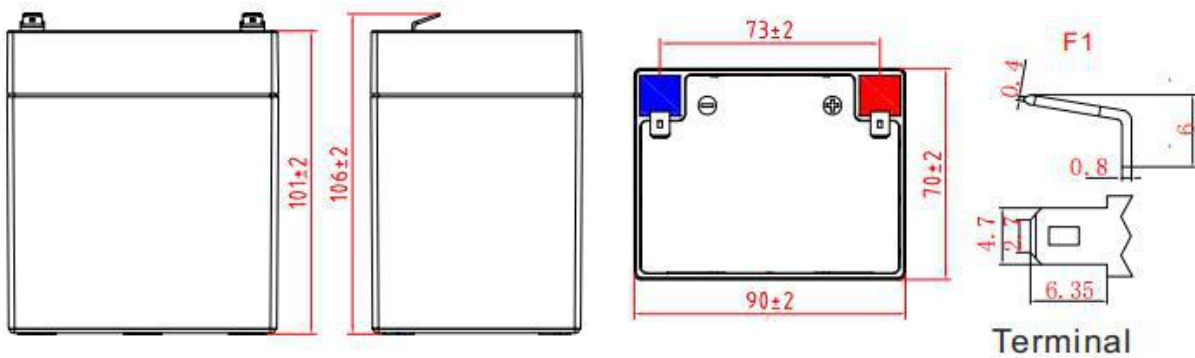
## General Features

- ▶ High corrosion resistant performance: Pb-Ca multi-alloy grid
- ▶ High energy density and power density
- ▶ Optimized capability of instant high-current discharging
- ▶ Excellent charge acceptance ability
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Precision sealing technology



**Dimension: 90(L) × 70(W) × 101(H) × 106(TH)**

**Unit: mm**



Specification	
Nominal Voltage	12V
Nominal Capacity	5.0Ah
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 1.46kg (3.21lbs)
Container Material	ABS
short-circuit current	250A
Internal resistance(Full charged at 25°C: )	48.0 mΩ
Self discharge	3% of capacity declined per month at 25°C
Operating Temperature	
Discharge:	-20 ~50°C(-4~ 122°F)
Charge :	-20 ~50°C(-4~ 122°F)
Storage:	-20 ~50°C(-4~ 122°F)
Charge Method(25 °C)	
Charge current:	Max. 1.25A;Recom.0.50A
Float charge:13.5-13.8V	recom.13.8V(-18mV/ °C)
Equalize charge:13.8-14.1V	recom.14.1V(-24mV/ °C)
Cycle charge:14.4-15.0V	recom.14.7V(-30mV/ °C)

## Standards

Executive standard GB/T 19639.1-2014

## Applications

- ▶ UPS/EPS
- ▶ Power systems
- ▶ Telecommunications system
- ▶ Emergency lighting, Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

## Rated Capacity

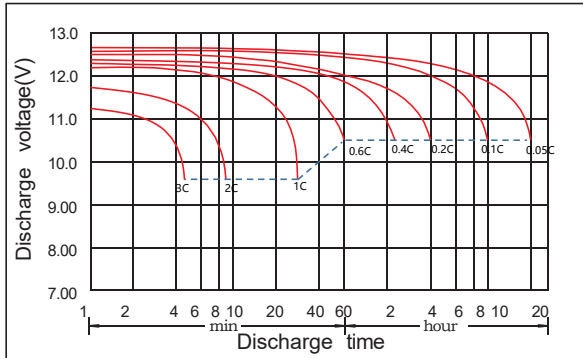
20Hour Rate (0.250A to 10.5V)	5.00Ah
3Hour Rate (1.17A to 10.2V)	3.51Ah
1Hour Rate (3.22A to 9.6V)	3.22Ah

## Attain Certificate

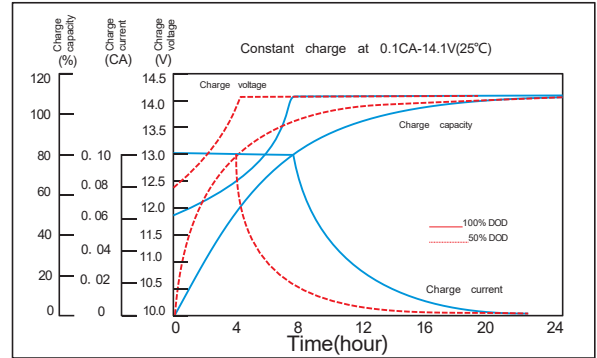




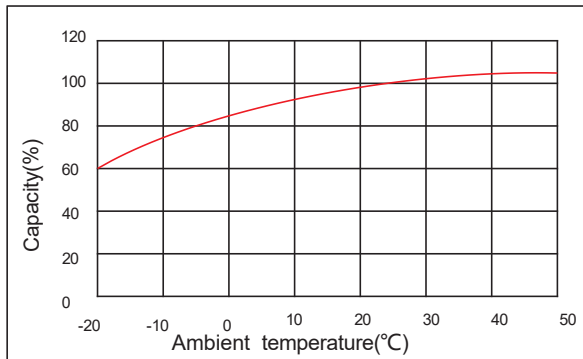
## Discharge characteristic



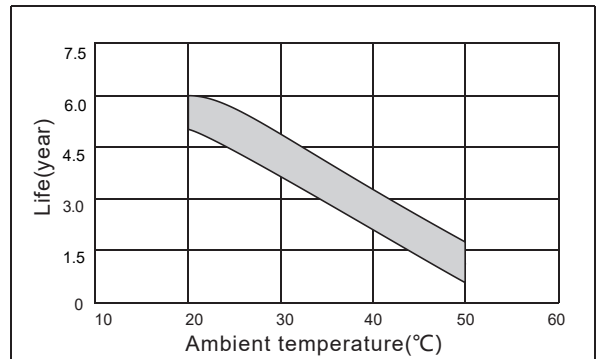
## Charging characteristic



## The effect of temperature on capacity



## The effect of temperature on float life



## Constant Current Discharge Characteristics Unit:A (25°C,77°F)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	18.9	14.7	9.72	5.86	3.54	3.22	2.31	1.73	1.20	0.944	0.871	0.709	0.572	0.484	0.253
1.65V	16.6	13.0	9.23	5.54	3.50	3.07	2.20	1.72	1.19	0.934	0.866	0.704	0.567	0.479	0.252
1.70V	15.5	12.2	9.14	5.40	3.46	3.00	2.16	1.71	1.17	0.925	0.856	0.695	0.563	0.475	0.251
1.75V	13.9	11.1	9.04	5.22	3.43	2.91	2.09	1.69	1.16	0.915	0.846	0.690	0.558	0.470	0.250
1.80V	12.3	10.0	8.26	4.99	3.39	2.80	2.01	1.65	1.15	0.905	0.827	0.680	0.553	0.465	0.249
1.85V	10.9	8.98	7.48	4.39	3.28	2.53	1.82	1.57	1.08	0.876	0.783	0.660	0.533	0.450	0.244

## Constant Power Discharge Characteristics Unit: W/cell (25°C,77°F)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	30.2	23.5	19.0	11.5	6.93	6.33	4.55	3.41	2.36	1.86	1.72	1.40	1.13	0.959	0.502
1.65V	27.7	21.7	18.0	10.9	6.86	6.03	4.34	3.39	2.34	1.84	1.71	1.39	1.12	0.949	0.500
1.70V	26.3	20.8	17.8	10.6	6.79	5.91	4.25	3.37	2.30	1.82	1.69	1.37	1.11	0.940	0.497
1.75V	24.2	19.4	17.6	10.2	6.71	5.71	4.11	3.32	2.29	1.80	1.67	1.36	1.10	0.930	0.495
1.80V	22.2	18.0	16.1	9.77	6.65	5.52	3.96	3.26	2.26	1.78	1.63	1.34	1.09	0.920	0.493
1.85V	20.1	16.6	14.7	8.66	6.47	5.01	3.60	3.10	2.15	1.73	1.55	1.31	1.06	0.896	0.488