



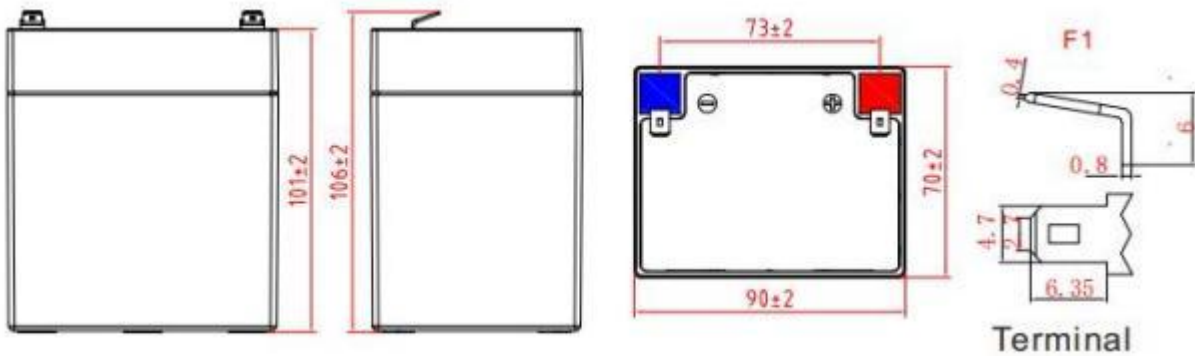
General Features

- ▶ 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) / (±2.0)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	5.3Ah
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx. 1.55kg±3% (3.41lbs±3%)
Container Material	ABS
short-circuit current	333A
Internal resistance(Full charged at 25°C:)	36.0 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. 1.33A;Recom.0.53A
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: IEC 61056-2,
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

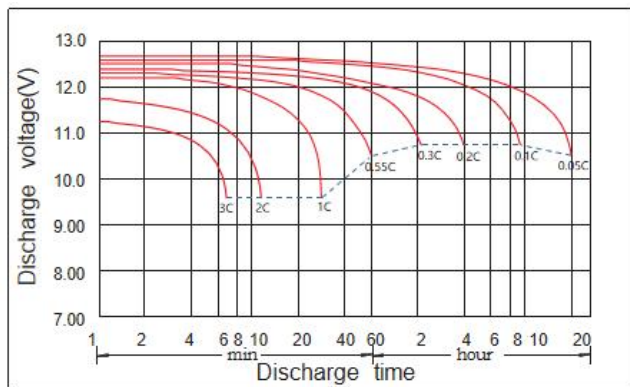
20Hour Rate (0.265A to 10.5V)	5.3Ah
3Hour Rate (1.38A to 10.2V)	4.14Ah
1Hour Rate (3.28A to 9.6V)	3.28Ah

Attain Certificate

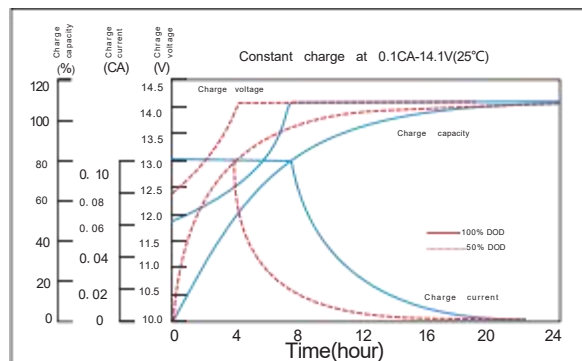


lead-acid battery 12V5.3AH

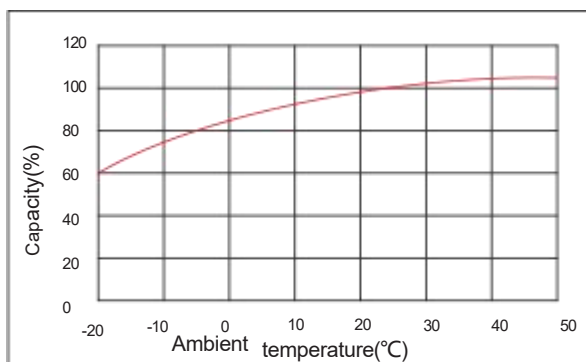
Discharge characteristic



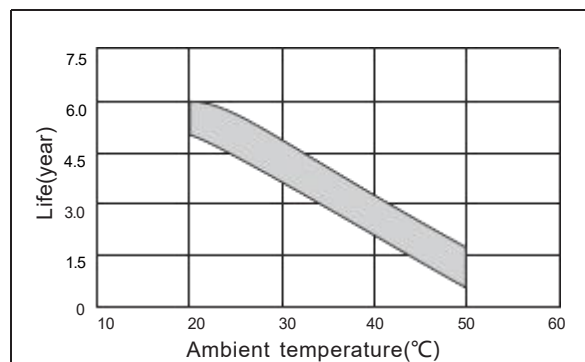
Charging characteristic



The effect of temperature on capacity



The effect of temperature on float life



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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	19.65	13.67	9.97	5.89	4.17	3.28	2.35	1.96	1.48	1.17	0.98	0.840	0.635	0.521	0.275
1.65V	18.56	12.88	9.43	5.59	3.98	3.12	2.26	1.90	1.43	1.14	0.96	0.822	0.628	0.514	0.270
1.70V	16.92	11.95	8.83	5.40	3.84	3.01	2.19	1.84	1.38	1.11	0.93	0.795	0.619	0.507	0.267
1.75V	15.31	11.18	8.52	5.16	3.66	2.90	2.10	1.77	1.35	1.08	0.91	0.772	0.610	0.501	0.265
1.80V	13.44	10.13	7.86	4.93	3.52	2.79	2.04	1.72	1.31	1.05	0.88	0.744	0.600	0.495	0.261
1.85V	10.67	8.23	6.53	4.25	3.07	2.50	1.89	1.57	1.21	0.97	0.82	0.708	0.563	0.465	0.246

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

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	32.89	22.55	17.24	10.69	7.89	6.16	4.48	3.72	2.80	2.24	1.89	1.627	1.241	1.024	0.541
1.65V	31.12	21.85	16.73	10.37	7.50	6.00	4.41	3.62	2.73	2.19	1.85	1.572	1.230	1.013	0.533
1.70V	29.01	20.81	15.90	10.01	7.18	5.73	4.27	3.52	2.66	2.14	1.81	1.533	1.213	0.999	0.528
1.75V	26.84	19.99	15.56	9.67	7.05	5.60	4.11	3.41	2.62	2.09	1.77	1.499	1.199	0.987	0.524
1.80V	24.07	18.41	14.57	9.33	6.80	5.37	4.01	3.34	2.55	2.04	1.73	1.467	1.181	0.972	0.517
1.85V	19.50	15.31	12.26	8.12	6.04	4.88	3.69	3.05	2.37	1.90	1.62	1.398	1.112	0.920	0.487