

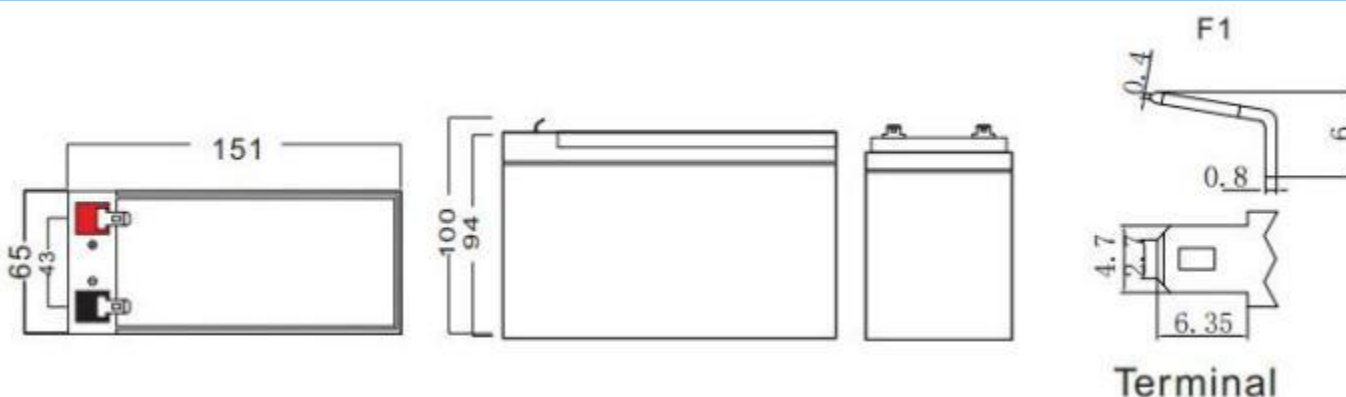
General Features

- ▶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:151(L)×65(W) ×94(H)×100(TH)/(±2.0)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	7.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx.2.0kg±3% (4.41lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	342A
Internal resistance(Full charged at 25°C:)	35.0 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. 1.75A;Recom.0.70A
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

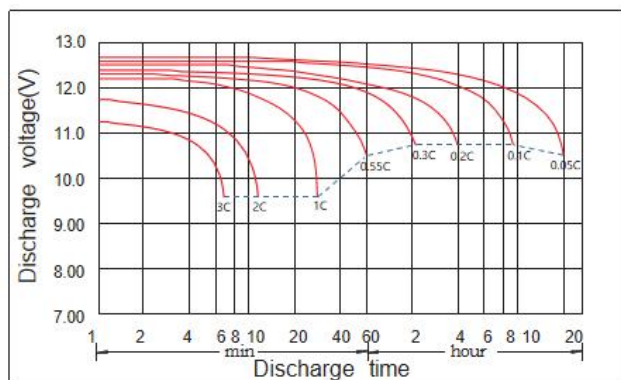
Rated Capacity

20Hour Rate (0.350A to 10.5V)	7.00Ah
3Hour Rate (1.824A to 10.2V)	5.472Ah
1Hour Rate (4.327A to 9.6V)	4.327Ah

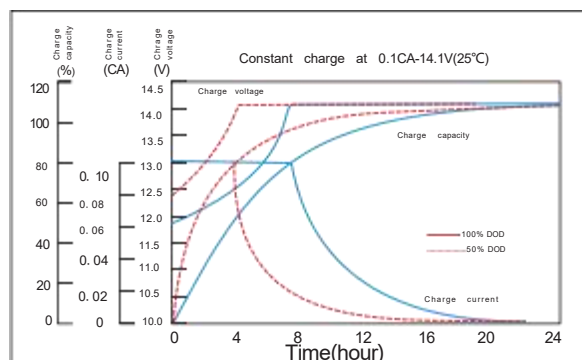
Attain Certificate



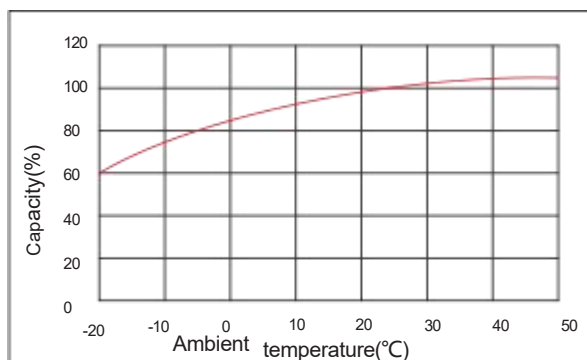
Discharge characteristic



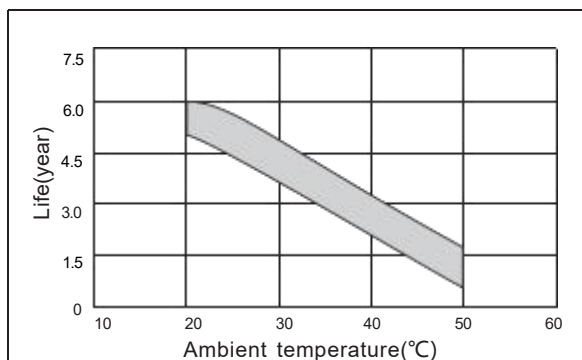
Charging characteristic



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	25.96	18.05	13.17	7.774	5.512	4.327	3.097	2.593	1.954	1.543	1.296	1.110	0.839	0.688	0.363
1.65V	24.51	17.02	12.45	7.387	5.253	4.125	2.991	2.511	1.894	1.501	1.263	1.086	0.830	0.679	0.357
1.70V	22.34	15.79	11.66	7.134	5.075	3.977	2.894	2.428	1.824	1.460	1.230	1.051	0.817	0.669	0.353
1.75V	20.22	14.77	11.25	6.819	4.832	3.832	2.774	2.343	1.787	1.423	1.199	1.019	0.806	0.662	0.350
1.80V	17.75	13.38	10.39	6.517	4.651	3.685	2.695	2.278	1.732	1.382	1.168	0.983	0.792	0.654	0.345
1.85V	14.09	10.87	8.618	5.613	4.058	3.305	2.490	2.070	1.601	1.285	1.089	0.935	0.744	0.614	0.325

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	43.45	29.79	22.77	14.12	10.43	8.139	5.918	4.915	3.697	2.962	2.499	2.149	1.639	1.352	0.714
1.65V	41.10	28.86	22.09	13.70	9.906	7.924	5.827	4.781	3.611	2.893	2.443	2.077	1.624	1.337	0.704
1.70V	38.32	27.48	21.00	13.23	9.486	7.563	5.635	4.649	3.514	2.825	2.388	2.024	1.603	1.319	0.697
1.75V	35.45	26.40	20.55	12.77	9.305	7.401	5.425	4.508	3.458	2.763	2.336	1.980	1.584	1.303	0.692
1.80V	31.79	24.32	19.24	12.33	8.986	7.091	5.290	4.405	3.364	2.693	2.284	1.937	1.560	1.284	0.683
1.85V	25.76	20.23	16.19	10.72	7.979	6.448	4.869	4.024	3.124	2.513	2.137	1.847	1.468	1.215	0.644