

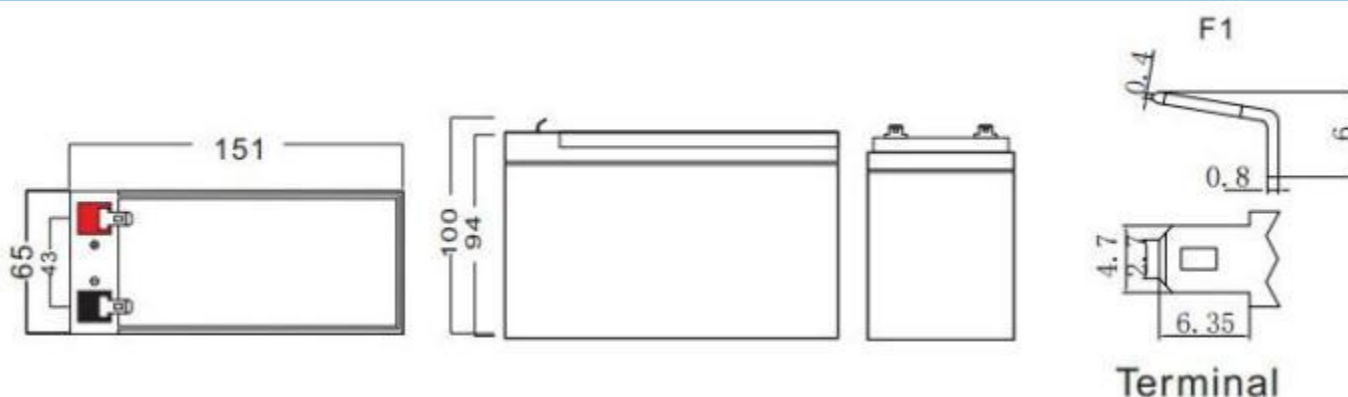
General Features

- ▶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	8.5Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx2.26kg±3% (4.98lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	480A
Internal resistance(Full charged at 25°C:)	25.0 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. 2.10A;Recom.0.85A
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

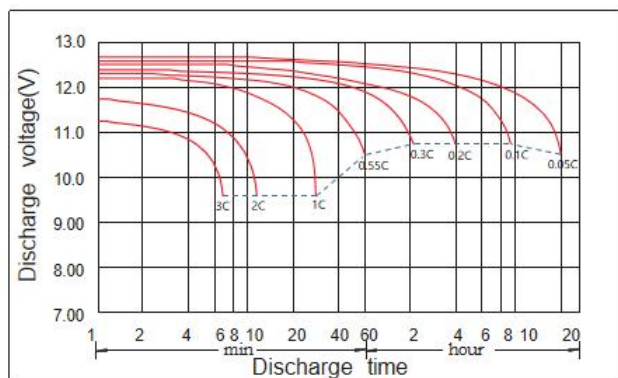
Rated Capacity

20Hour Rate (0.425A to 10.5V)	8.50Ah
3Hour Rate (2.215A to 10.2V)	6.645Ah
1Hour Rate (5.254A to 9.6V)	5.254Ah

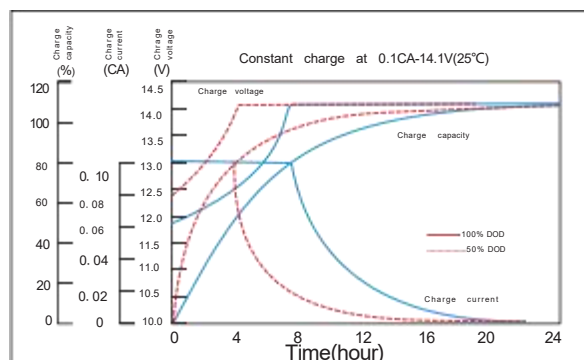
Attain Certificate



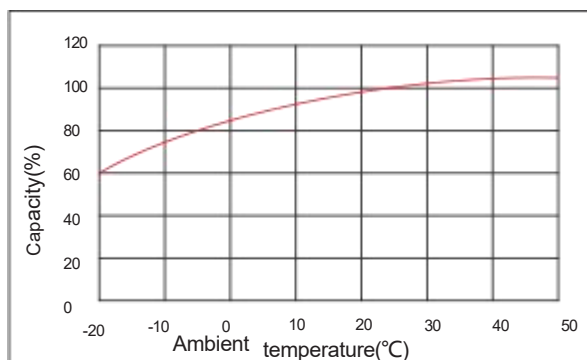
Discharge characteristic



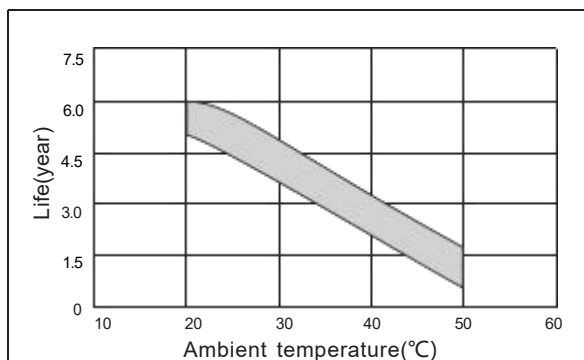
Charging characteristic



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	31.52	21.92	15.99	9.440	6.693	5.254	3.761	3.149	2.373	1.873	1.574	1.347	1.019	0.835	0.441
1.65V	29.76	20.66	15.12	8.970	6.379	5.008	3.632	3.049	2.300	1.823	1.533	1.319	1.008	0.825	0.434
1.70V	27.13	19.17	14.16	8.663	6.162	4.829	3.514	2.948	2.215	1.773	1.493	1.276	0.992	0.813	0.429
1.75V	24.55	17.93	13.66	8.280	5.867	4.653	3.369	2.845	2.170	1.728	1.456	1.237	0.978	0.804	0.425
1.80V	21.56	16.25	12.61	7.914	5.647	4.475	3.273	2.766	2.103	1.678	1.418	1.194	0.962	0.794	0.419
1.85V	17.11	13.20	10.47	6.816	4.927	4.013	3.024	2.514	1.944	1.560	1.323	1.135	0.903	0.745	0.394

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	52.76	36.17	27.65	17.15	12.66	9.883	7.186	5.968	4.489	3.597	3.034	2.609	1.990	1.642	0.868
1.65V	49.91	35.05	26.83	16.63	12.03	9.622	7.075	5.806	4.385	3.512	2.967	2.522	1.972	1.624	0.855
1.70V	46.53	33.37	25.50	16.06	11.52	9.184	6.842	5.646	4.267	3.430	2.899	2.458	1.946	1.602	0.846
1.75V	43.04	32.06	24.95	15.51	11.30	8.987	6.588	5.474	4.199	3.355	2.836	2.404	1.923	1.583	0.840
1.80V	38.60	29.53	23.36	14.97	10.91	8.611	6.424	5.349	4.085	3.270	2.773	2.352	1.894	1.560	0.829
1.85V	31.28	24.56	19.66	13.02	9.689	7.830	5.913	4.887	3.793	3.051	2.594	2.243	1.783	1.475	0.782