

lead-acid battery 12V12AH

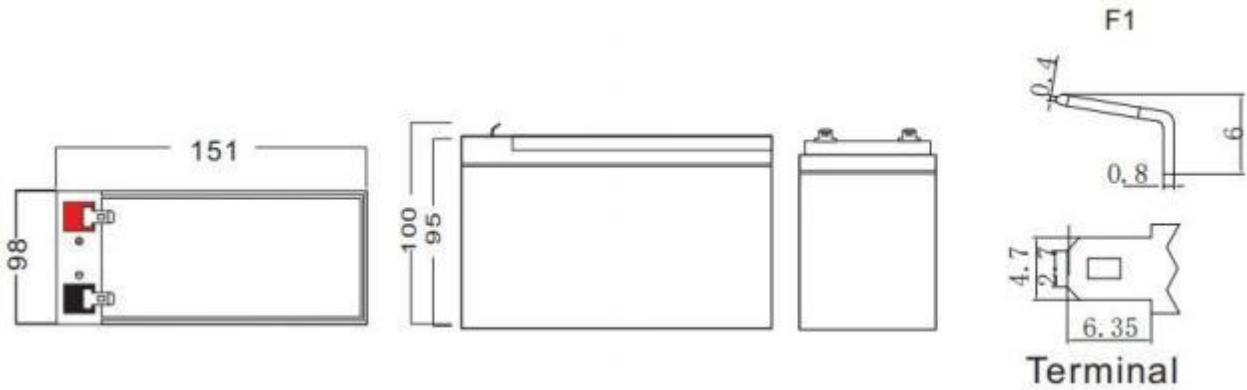
General Features

- ▶ 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) × 98(W) × 95(H) × 100(TH) / (±2.0)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	12.0Ah
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx. 3.40kg±3% (7.50lbs±3%)
Container Material	ABS
short-circuit current	500A
Internal resistance(Full charged at 25°C:)	24.0 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. 3.00A;Recom.1.20A
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

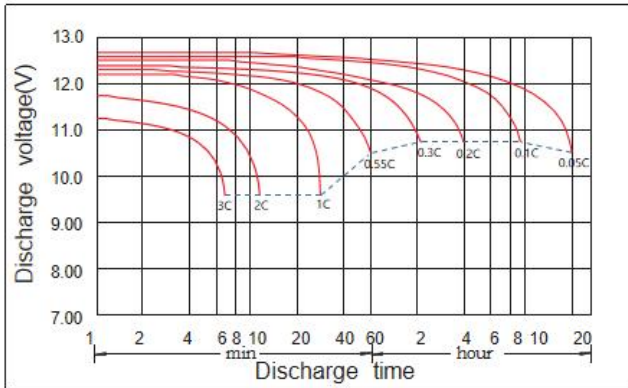
20Hour Rate (0.60A to 10.5V)	12.0Ah
3Hour Rate (3.127A to 10.2V)	9.381Ah
1Hour Rate (7.343A to 9.6V)	7.343Ah

Attain Certificate

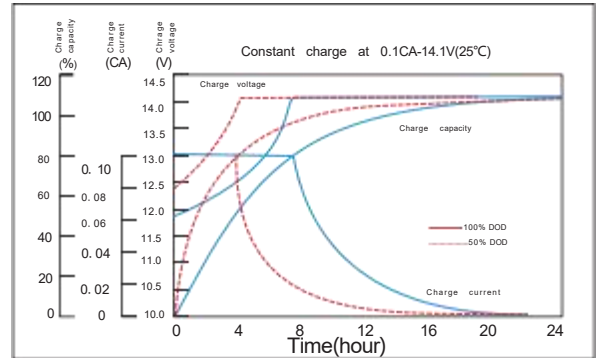


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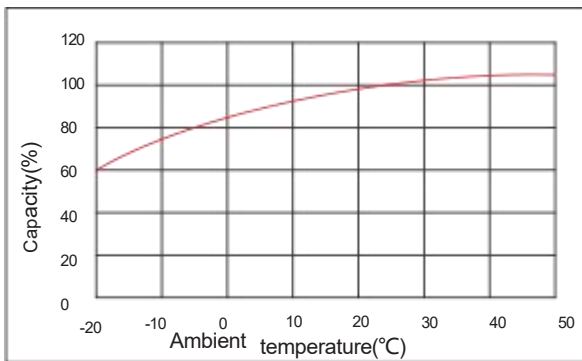
Discharge characteristic



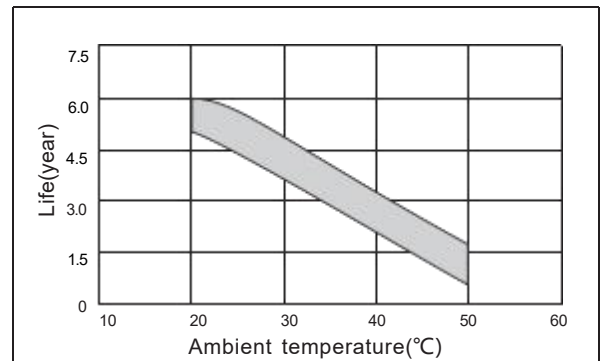
Charging characteristic



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	43.16	30.02	22.12	13.06	9.355	7.343	5.310	4.446	3.350	2.645	2.222	1.902	1.439	1.179	0.622
1.65V	40.76	28.29	20.92	12.41	8.916	7.000	5.128	4.304	3.246	2.573	2.165	1.862	1.423	1.165	0.612
1.70V	37.15	26.25	19.60	11.99	8.612	6.749	4.961	4.162	3.127	2.503	2.108	1.801	1.401	1.147	0.605
1.75V	33.62	24.56	18.90	11.46	8.200	6.503	4.756	4.017	3.064	2.439	2.055	1.747	1.381	1.134	0.600
1.80V	29.52	22.26	17.45	10.95	7.893	6.254	4.620	3.905	2.969	2.369	2.002	1.685	1.358	1.121	0.591
1.85V	23.43	18.08	14.48	9.43	6.887	5.609	4.269	3.549	2.745	2.202	1.867	1.603	1.275	1.052	0.557

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	72.24	49.53	38.26	23.72	17.69	13.81	10.14	8.426	6.338	5.078	4.284	3.684	2.810	2.318	1.225
1.65V	68.35	47.99	37.12	23.01	16.81	13.45	9.989	8.197	6.191	4.959	4.188	3.560	2.784	2.293	1.207
1.70V	63.71	45.70	35.28	22.22	16.10	12.84	9.659	7.970	6.023	4.842	4.093	3.470	2.747	2.261	1.195
1.75V	58.94	43.90	34.52	21.45	15.79	12.56	9.300	7.728	5.928	4.736	4.004	3.393	2.715	2.234	1.186
1.80V	52.86	40.44	32.32	20.71	15.25	12.04	9.069	7.551	5.767	4.617	3.915	3.321	2.675	2.202	1.171
1.85V	42.84	33.63	27.20	18.02	13.54	10.94	8.348	6.899	5.355	4.307	3.663	3.166	2.517	2.082	1.103