

lead-acid battery 12V9AH

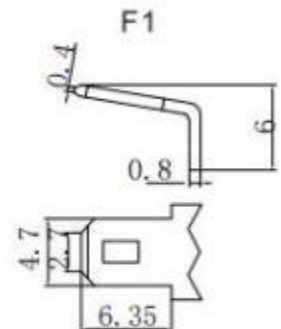
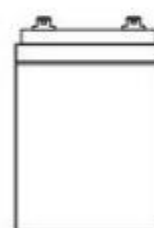
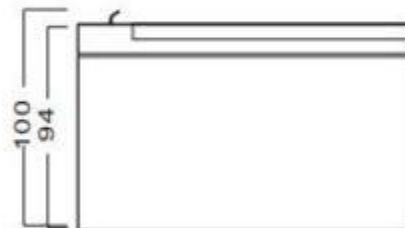
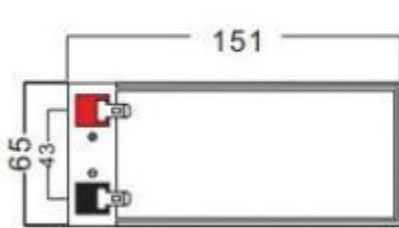
General Features

- ▶ 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



Terminal

Specification	
Nominal Voltage	12V
Nominal Capacity	9.0Ah@20hour-rate to 1.75V per cell @25°C
Design life	5 years
Terminal	F1/F2
Approx. Weight	Approx 2.51kg±3% (5.53lbs±3%)
Container Material	ABS(UL94-HB, UL94-V0 Optional)
short-circuit current	666A
Internal resistance(Full charged at 25°C:)	18.0 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. 2.25A;Recom.0.90A
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

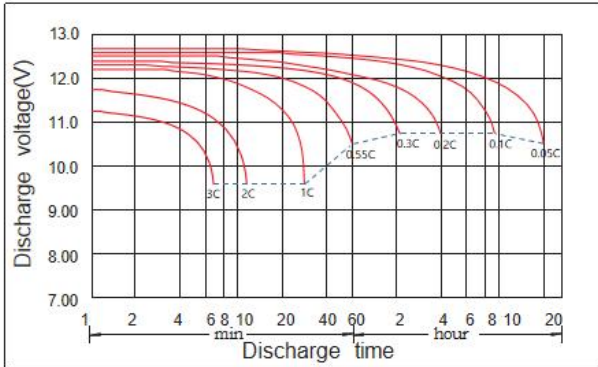
20Hour Rate (0.45A to 10.5V)	9.00Ah
3Hour Rate (2.345A to 10.2V)	7.035Ah
1Hour Rate (5.563A to 9.6V)	5.563Ah

Attain Certificate

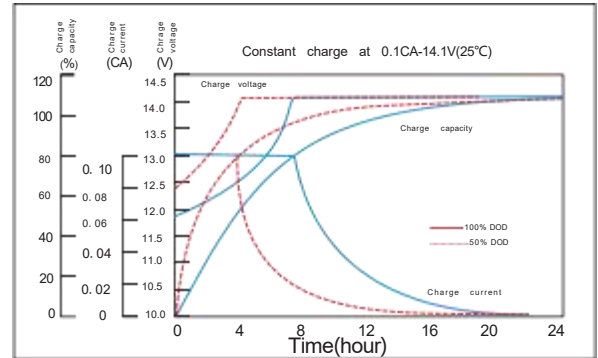


lead-acid battery 12V9AH

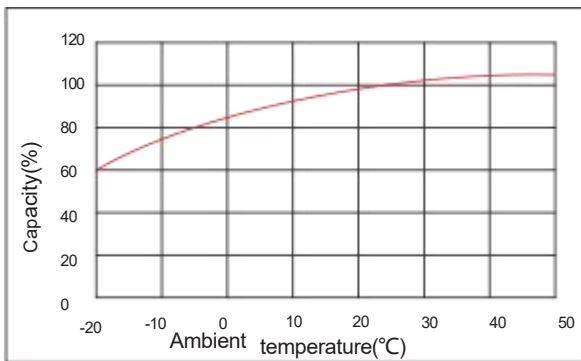
Discharge characteristic



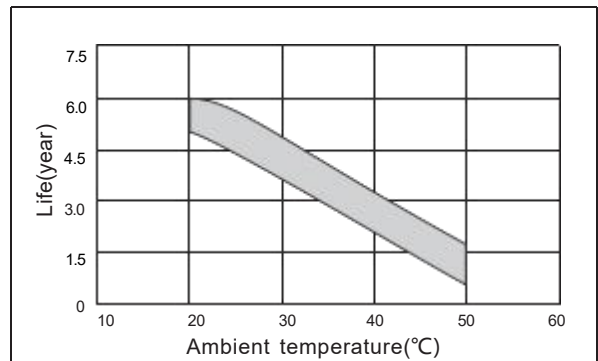
Charging characteristic



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	33.37	23.21	16.93	9.996	7.087	5.563	3.982	3.334	2.512	1.984	1.667	1.427	1.079	0.884	0.466
1.65V	31.51	21.88	16.01	9.497	6.754	5.303	3.846	3.228	2.435	1.930	1.623	1.397	1.067	0.874	0.459
1.70V	28.72	20.30	15.00	9.172	6.524	5.113	3.721	3.122	2.345	1.877	1.581	1.351	1.050	0.860	0.454
1.75V	26.00	18.99	14.46	8.767	6.212	4.926	3.567	3.012	2.298	1.829	1.541	1.310	1.036	0.851	0.450
1.80V	22.82	17.21	13.35	8.379	5.979	4.738	3.465	2.929	2.227	1.777	1.502	1.264	1.018	0.841	0.444
1.85V	18.12	13.98	11.08	7.217	5.217	4.249	3.202	2.661	2.059	1.652	1.400	1.202	0.956	0.789	0.418

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	55.86	38.30	29.28	18.16	13.40	10.46	7.608	6.320	4.753	3.808	3.213	2.763	2.107	1.738	0.919
1.65V	52.85	37.11	28.41	17.61	12.74	10.19	7.492	6.148	4.643	3.719	3.141	2.670	2.088	1.720	0.905
1.70V	49.26	35.34	27.00	17.00	12.20	9.724	7.245	5.978	4.518	3.632	3.070	2.603	2.061	1.696	0.896
1.75V	45.57	33.95	26.42	16.42	11.96	9.515	6.975	5.796	4.446	3.552	3.003	2.545	2.036	1.676	0.890
1.80V	40.87	31.26	24.74	15.85	11.55	9.118	6.802	5.663	4.325	3.462	2.936	2.490	2.006	1.651	0.878
1.85V	33.12	26.01	20.82	13.79	10.26	8.291	6.261	5.174	4.016	3.230	2.747	2.375	1.888	1.562	0.827