



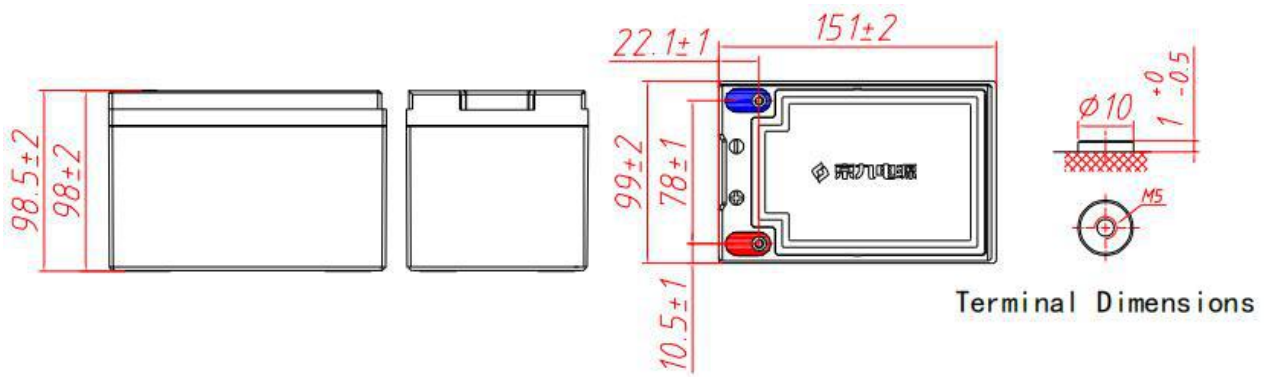
General Features

- ▶ 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
- ▶ Strong high and low temperature performance
- ▶ Low self-discharge rate



Dimension: 151(L) × 99(W) × 98(H) × 98.5(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	12.0Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx 3.95kg (8.70lbs)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25°C
Rated Capacity	
10Hour Rate (1.40A to 10.5V)	14.0Ah
2Hour Rate (6.00A to 10.5V)	12.0Ah
1Hour Rate (11.8A to 10.5V)	11.8Ah
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)	
Max charge current	1.8A
Float Use:	13.7-13.9V@25
Cycle Use :	14.7-14.9V,@25

Standards

Executive standard :GB/T32620-2016

Applications

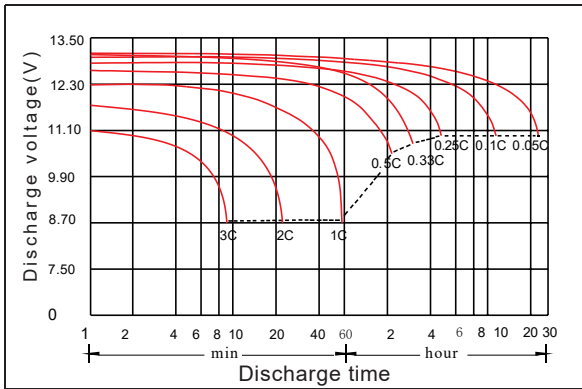
- ▶ Electric vehicle
- ▶ Electric wheelchair
- ▶ Electric scooter
- ▶ Electric play car for children
- ▶ Garbage truck
- ▶ Patrol car

Attain Certificate

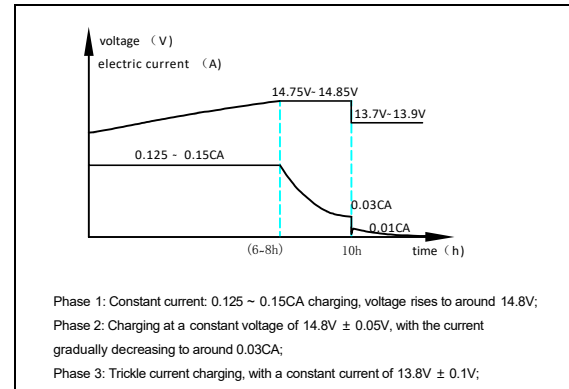




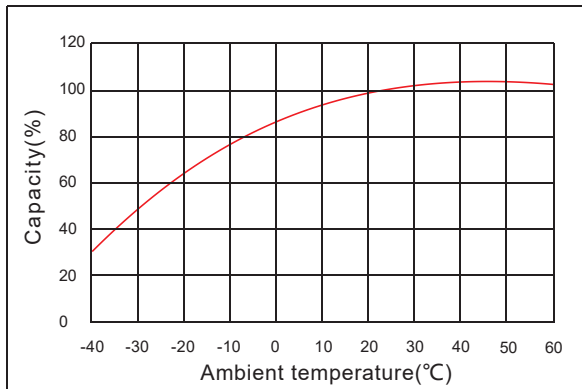
Discharge characteristic



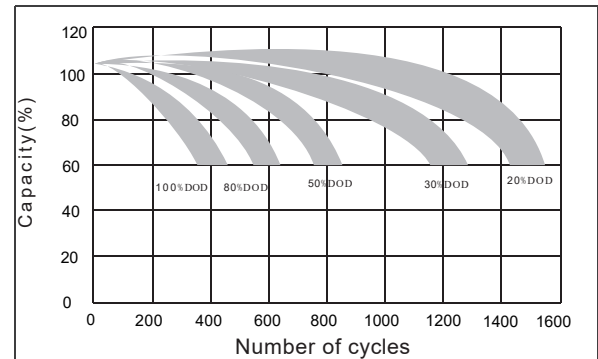
Charging characteristic



The effect of temperature on capacity



The effect of discharge depth on cycle life



Constant Current Discharge Characteristics Unit:A (25°C,77°F)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	61.0	32.7	18.9	12.2	6.20	4.31	2.68	1.71	1.44	0.776
1.65V	59.0	31.7	18.6	12.1	6.15	4.27	2.67	1.70	1.43	0.770
1.70V	56.9	31.1	18.2	12.0	6.10	4.21	2.63	1.68	1.42	0.765
1.75V	52.2	30.0	18.0	11.8	6.00	4.20	2.60	1.67	1.40	0.760
1.80V	46.9	28.1	17.2	11.5	5.90	4.16	2.54	1.66	1.38	0.750
1.85V	41.9	25.0	15.7	10.7	5.60	3.91	2.41	1.58	1.34	0.739

Constant Power Discharge Characteristics Unit: W/cell (25°C ,77°F)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	102.3	57.4	34.2	23.1	11.7	8.20	5.10	3.32	2.77	1.53
1.65V	98.1	56.9	33.9	22.8	11.6	8.10	5.05	3.29	2.74	1.52
1.70V	97.6	56.1	33.8	22.7	11.6	8.09	4.99	3.28	2.71	1.51
1.75V	91.3	55.8	33.6	22.4	11.5	8.03	4.98	3.26	2.69	1.50
1.80V	84.0	52.7	32.7	22.2	11.5	8.00	4.95	3.23	2.66	1.50
1.85V	74.6	47.3	30.0	20.7	11.0	7.59	4.70	3.13	2.62	1.48