



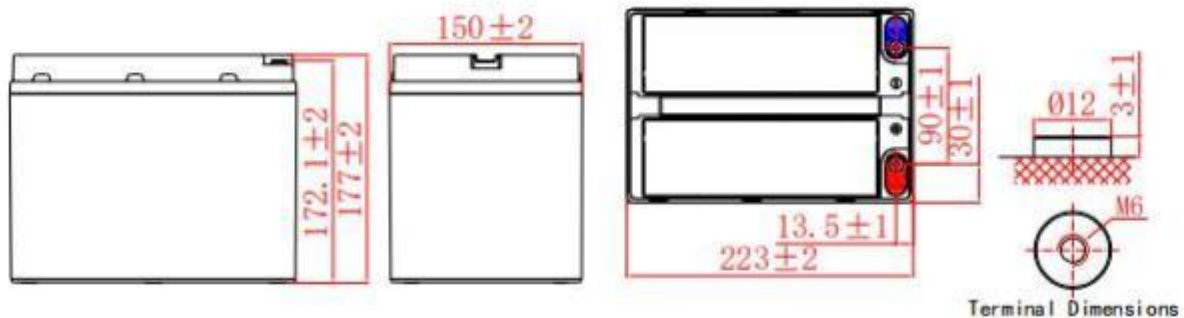
General Features

- ▶ 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: 223(L) × 150(W) × 172(H) × 177(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	55Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 15.6kg ± 3% (34.4lbs)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25°C
Rated Capacity	
20Hour Rate (3.5A to 10.5V)	70.0Ah
3Hour Rate (18.33A to 10.5V)	55.0Ah
1Hour Rate (45.0A to 10.5V)	45.0Ah
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	8.25A
Float Use:	13.7-13.9V @ 25
Cycle Use :	14.7-14.9V, @ 25

Standards

Executive standard : GB/T32620.1-2016

Applications

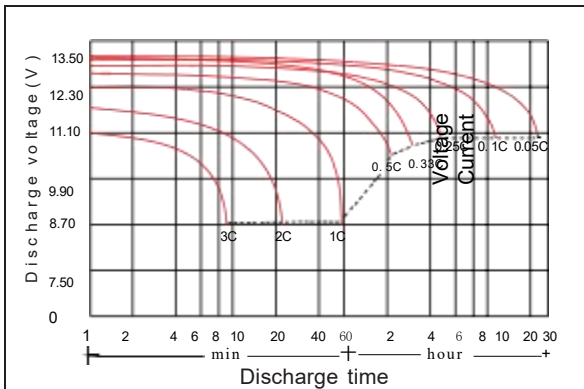
- ▶ Electric vehicle
- ▶ Electric wheelchair
- ▶ Electric scooter
- ▶ Electric play car for children
- ▶ Garbage truck
- ▶ Patrol car

Attain Certificate

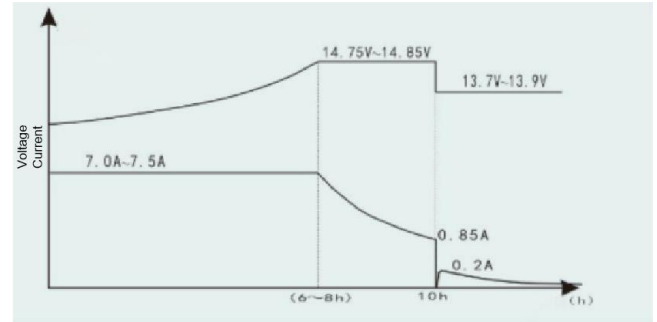




Discharge characteristic

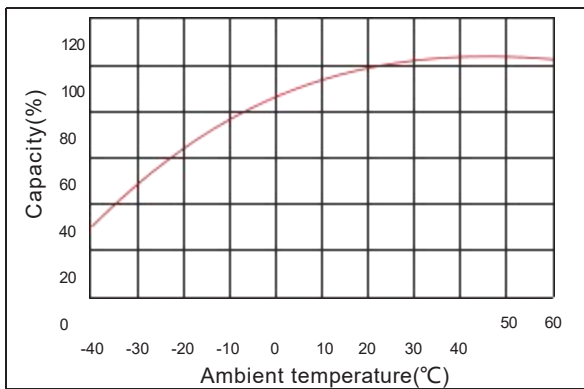


Charging characteristic

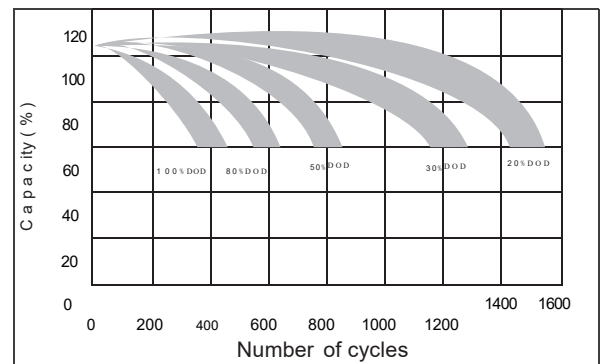


First stage: constant current 7.0-7.5A charge to voltage 14.8V;
 Second stage: constant voltage 14.8±0.05V charge to current decrease to 800-850mA;
 Third stage: trickle charge, voltage: 13.8±0.1V.

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	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	73.4	46.3	26.8	19.0	12.4	7.94	6.69	3.56
1.65V	72.0	46.0	26.7	19.0	12.3	7.86	6.63	3.54
1.70V	70.5	45.7	26.4	18.6	12.2	7.79	6.56	3.52
1.75V	70.0	45.0	26.0	18.4	12.0	7.73	6.50	3.50
1.80V	66.9	43.8	25.5	18.3	11.7	7.73	6.44	3.33
1.85V	61.1	40.6	24.2	17.3	11.1	7.37	6.24	3.28

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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	133	87.8	50.6	36.3	23.4	15.5	12.9	6.72
1.65V	131	87.1	50.4	35.9	23.4	15.3	12.7	6.70
1.70V	131	86.4	50.2	35.7	23.2	15.2	12.5	6.65
1.75V	130	85.5	49.9	35.4	23.1	15.2	12.5	6.63
1.80V	127	84.8	49.7	35.3	22.8	15.0	12.4	6.61
1.85V	117	78.7	47.6	33.6	21.7	14.6	12.2	6.54