

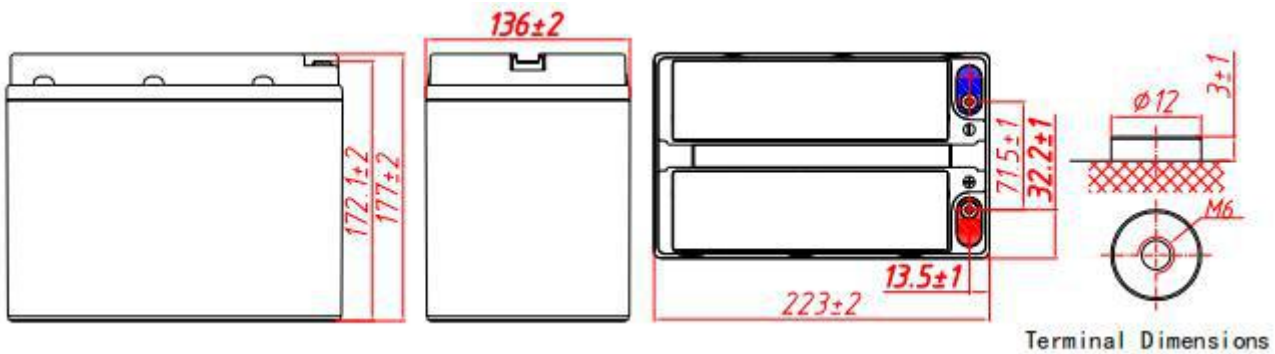
General Features

- ▶ 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) × 136(W) × 177(H) × 177(TH)

Unit: mm



Specification	
Nominal Voltage	12V
Nominal Capacity	52.3Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 14.1kg (31.1lbs)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25°C
Rated Capacity	
10Hour Rate (5.80A to 10.5V)	58.0Ah
3Hour Rate (17.4A to 10.5V)	52.3Ah
1Hour Rate (42.0A to 10.5V)	42.0Ah
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	7.85A
Float Use:	13.7-13.9V@25
Cycle Use :	14.7-14.9V,@25

Standards

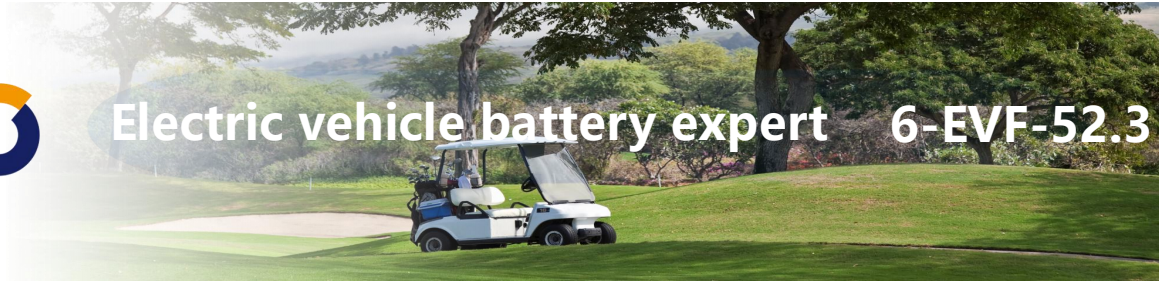
Executive standard :GB/T32620-2016

Applications

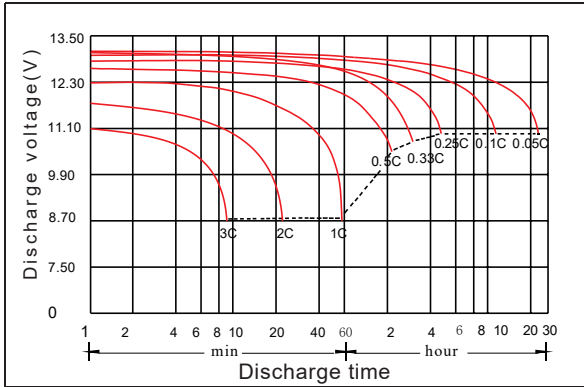
- ▶ Electric vehicle
- ▶ Electric wheelchair
- ▶ Electric scooter
- ▶ Electric play car for children
- ▶ Garbage truck
- ▶ Patrol car

Attain Certificate

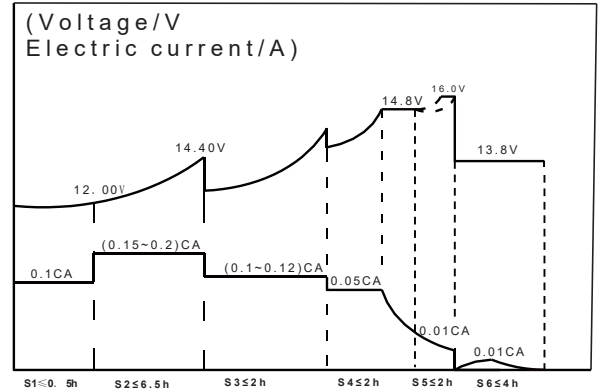




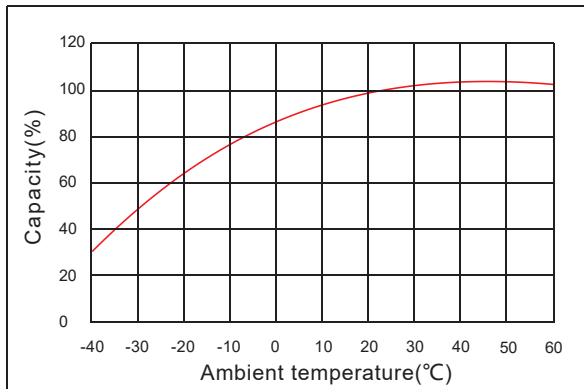
Discharge characteristic



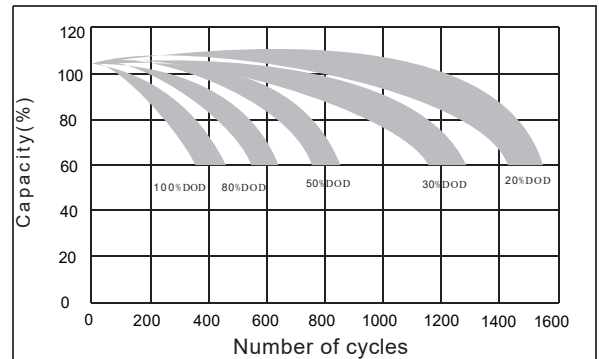
Charging characteristic



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	199	107	71.3	43.2	25.2	18.0	11.1	7.08	5.97	3.25
1.65V	193	104	69.9	42.9	25.1	17.9	11.1	7.02	5.91	3.23
1.70V	185	102	68.5	42.6	24.9	17.6	10.9	6.95	5.86	3.21
1.75V	170	98.0	68.0	42.0	24.5	17.4	10.8	6.89	5.80	3.20
1.80V	153	91.7	65.1	40.9	24.1	17.3	10.5	6.89	5.74	3.19
1.85V	136	81.7	59.4	37.9	22.8	16.3	10.0	6.57	5.57	3.13

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	334	188	129	82.0	47.6	34.4	21.1	13.8	11.5	6.43
1.65V	321	185	128	81.3	47.5	33.9	21.0	13.7	11.4	6.40
1.70V	320	183	128	80.6	47.3	33.7	20.9	13.6	11.2	6.37
1.75V	298	182	127	79.9	47.0	33.5	20.7	13.5	11.2	6.34
1.80V	274	172	123	79.2	46.9	33.4	20.5	13.4	11.0	6.31
1.85V	244	154	113	73.4	44.8	31.8	19.6	13.0	10.8	6.25