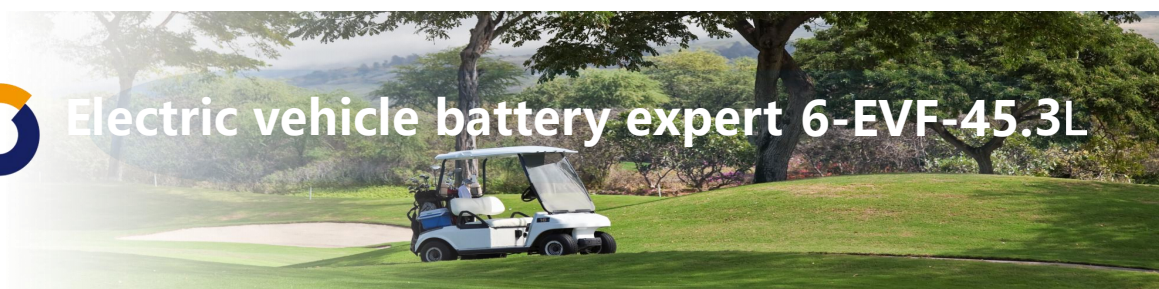




Electric vehicle battery expert 6-EVF-45.3L

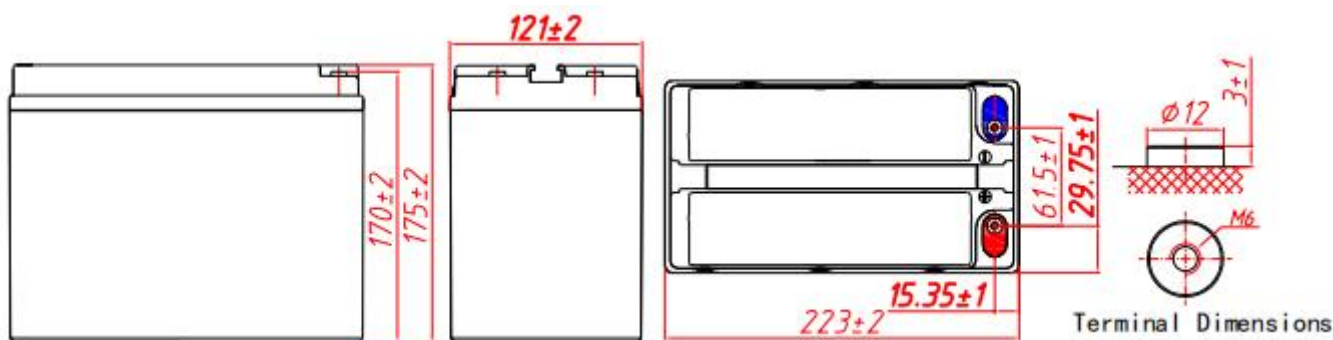


General Features

- 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) × 121(W) × 175(H) × 175(TH) / (±3) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	45Ah@3Hour-rate to 1.75V per cell @25℃
Design life	5 years
Terminal	M6
Approx. Weight	Approx. 12.4kg ± 3% (27.34lbs ± 3%)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25℃

Rated Capacity

20Hour Rate (2.75A to 10.5V)	55.0Ah
5Hour Rate (9.6A to 10.5V)	48.0Ah
3Hour Rate (15.0A to 10.5V)	45.0Ah

Operating Temperature

Discharge:	-20 ~50℃(-4~ 122°F)
Charge :	-20 ~50℃(-4~ 122°F)
Storage:	-20 ~50℃(-4~ 122°F)

Charge Method(25 °C)

Max charge current	6.80A
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

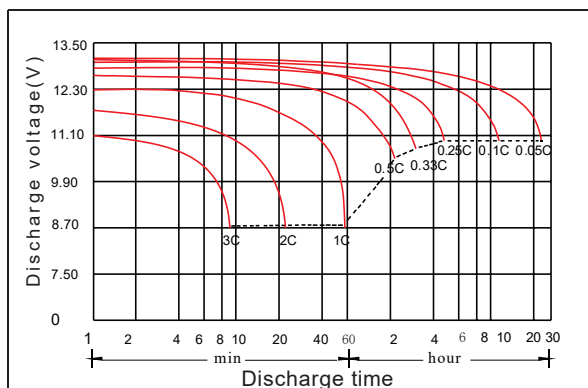
Attain Certificate



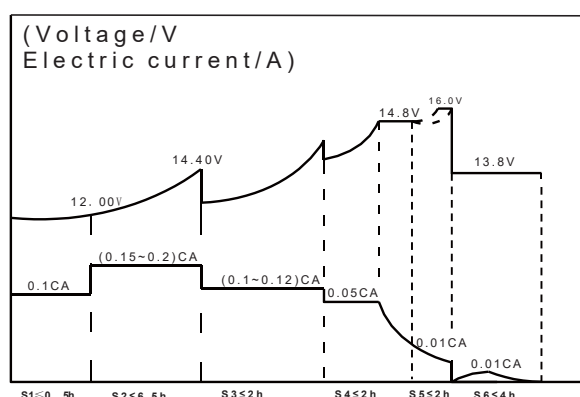
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



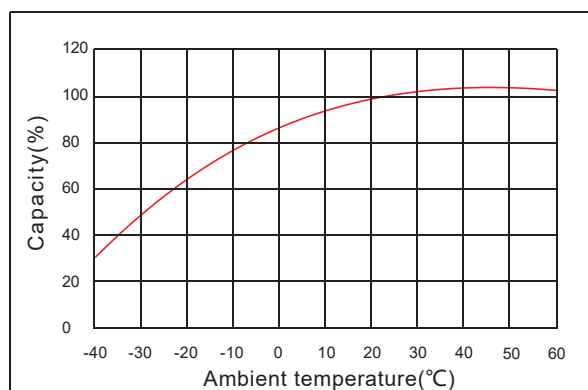
Discharge characteristic



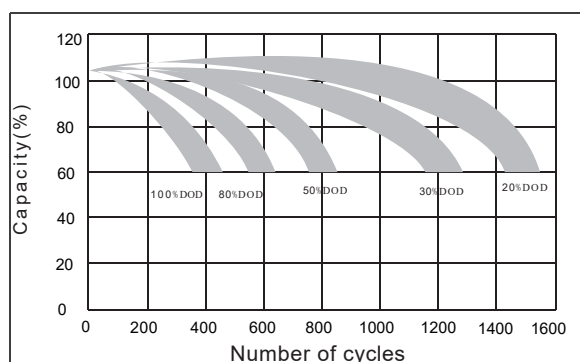
Charging characteristic



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	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	54.5	37.0	22.1	15.7	9.90	6.30	5.15	2.79
1.65V	53.5	36.8	22.0	15.5	9.83	6.24	5.10	2.78
1.70V	52.4	36.6	21.8	15.3	9.72	6.19	5.05	2.76
1.75V	52.0	36.0	21.5	15.1	9.60	6.12	5.00	2.75
1.80V	49.7	35.1	21.1	15.0	9.37	6.02	4.95	2.74
1.85V	45.4	32.5	20.0	14.2	8.89	5.85	4.80	2.69

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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	100.8	70.3	42.4	30.1	19.00	12.09	9.89	5.36
1.65V	99.0	69.9	42.2	29.8	18.88	11.98	9.79	5.34
1.70V	96.9	69.5	41.9	29.4	18.66	11.88	9.70	5.30
1.75V	96.2	68.4	41.3	29.0	18.43	11.76	9.60	5.28
1.80V	91.9	66.7	40.5	28.8	17.99	11.56	9.50	5.26
1.85V	84.0	61.8	38.4	27.3	17.08	11.22	9.22	5.16