



Electric vehicle battery expert 6 - EVF-38C



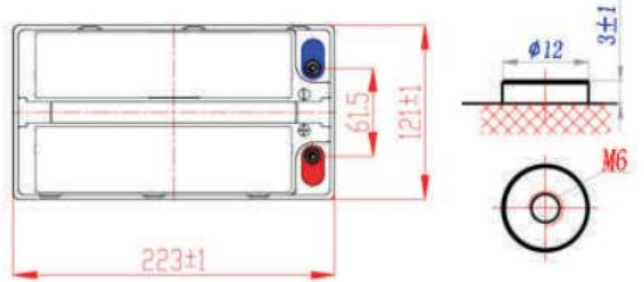
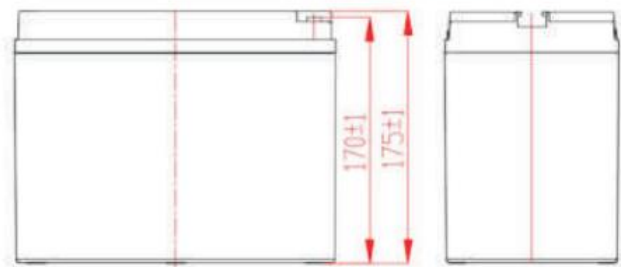
General Features

- 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)

Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	38Ah @ 3hour-rate to 1.75V per cell @25℃
Design life	5 years
Terminal	M6
Approx. Weight	Approx 11.55Kg±3% (27lbs±3%)
Container Material	ABS
Self discharge	3% of capacity declined per month at 25℃

Rated Capacity

20Hour Rate (2.40A to 10.5V)	48.0Ah
5Hour Rate (8.6A to 10.5V)	43.0Ah
3Hour Rate (12.7A to 10.5V)	38.0Ah

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	6.75A
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

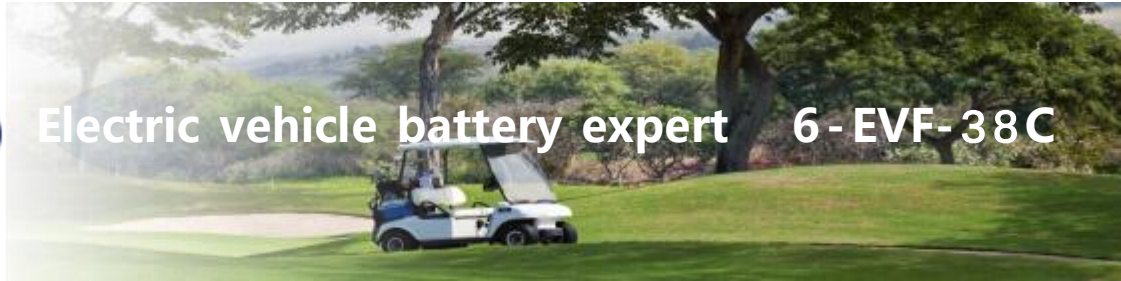
Attain Certificate



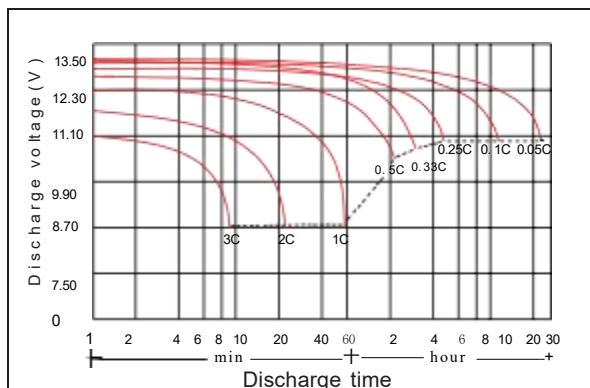
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



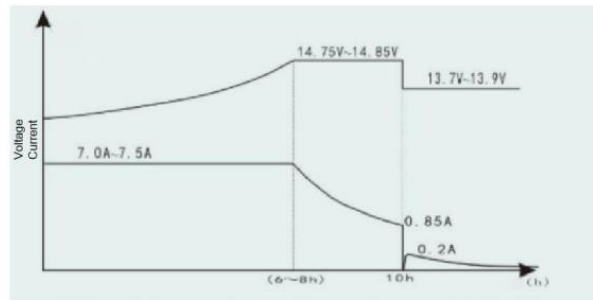
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Discharge characteristic

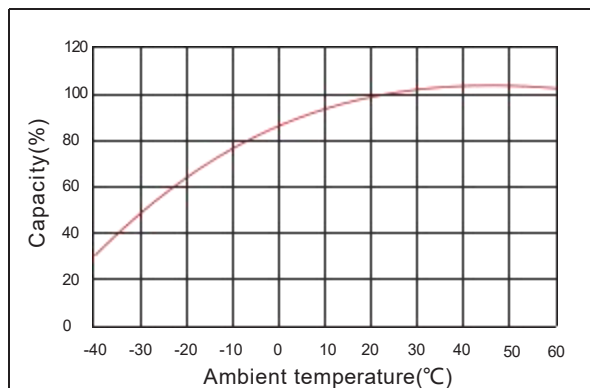


Charging characteristic

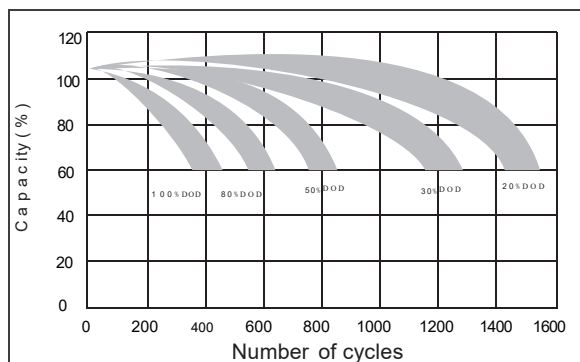


First stage: constant current 7.0-7.5A charge to voltage 14.8V;
Second stage: constant voltage 14.8±0.05V charge to current decrease to 800-850mA;
Third stage: trickle charge, voltage: 13.8±0.1V.

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	55.1	33.7	19.4	13.12	8.68	5.64	4.70	2.56
1.65V	53.8	33.4	19.2	13.04	8.67	5.58	4.66	2.54
1.70V	52.7	33.3	19.0	12.95	8.65	5.53	4.61	2.52
1.75V	45.4	31.4	18.8	12.70	8.60	5.50	4.56	2.40
1.80V	43.7	31.0	17.4	12.27	8.23	5.48	4.52	2.38
1.85V	43.5	29.6	16.5	11.60	7.73	5.23	4.38	2.35

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

FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	46.8	64.0	17.8	12.07	7.99	5.19	4.32	2.35
1.65V	45.8	63.5	17.7	11.99	7.98	5.14	4.28	2.34
1.70V	44.8	63.2	17.5	11.92	7.95	5.09	4.24	2.32
1.75V	38.6	59.7	17.3	11.68	7.91	5.06	4.20	2.21
1.80V	37.2	58.9	16.0	11.29	7.58	5.04	4.16	2.19
1.85V	37.0	56.2	15.2	10.67	7.11	4.82	4.03	2.16