

6-EVF-60H



Applications

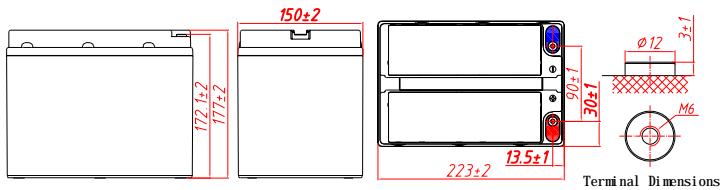
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

General Features

- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate



Dimension: 223(L)×150(W)×177(H)×177(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	60Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx.16.35kg (36.0lbs)
Container Material	ABS
Rated Capacity	72Ah 10Hour Rate (7.20A to 10.5V) 60Ah 3Hour Rate (20.3A to 10.5V) 50Ah 1Hour Rate (50A to 10.5V)
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)	Float Use: 13.7-13.9V@25°C Cycle Use :14.7-14.9V,@25°C Max charge current 9.0A
Self discharge	3% of capacity declined per month at 25°C

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

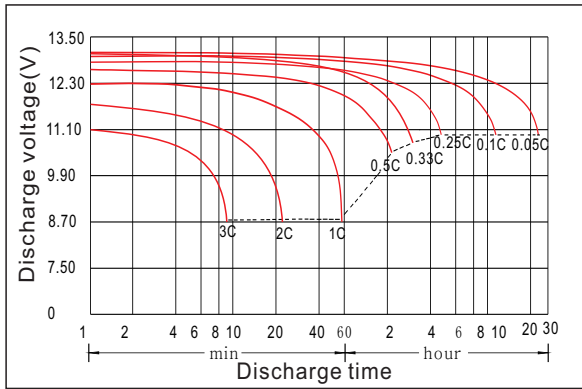
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	243	131	79.7	51.4	30.4	21.1	13.6	8.79	7.41	3.85
1.65V	237	127	78.1	51.1	30.3	21.0	13.5	8.71	7.34	3.84
1.70V	227	124	76.6	50.8	29.9	20.5	13.3	8.63	7.27	3.81
1.75V	209	120	76.0	50.0	29.5	20.3	13.2	8.56	7.20	3.80
1.80V	187	112	72.7	48.7	29.0	20.2	12.9	8.56	7.13	3.79
1.85V	167	100	66.4	45.1	27.5	19.1	12.2	8.16	6.91	3.71

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

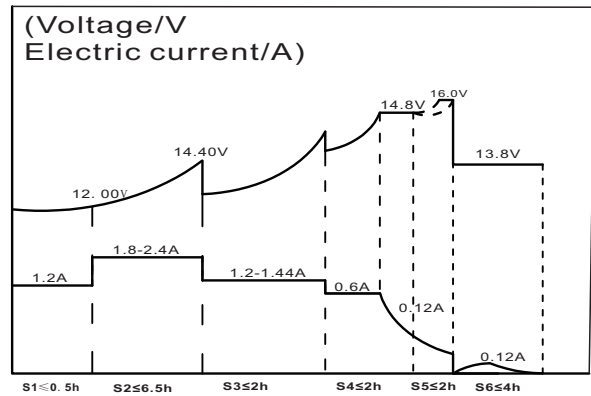
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	409	231	144	97.6	57.4	40.1	25.9	17.1	14.3	7.63
1.65V	393	227	143	96.7	57.2	39.6	25.6	17.0	14.1	7.60
1.70V	391	223	143	96.0	57.0	39.4	25.5	16.8	13.9	7.56
1.75V	364	223	141	95.1	56.6	39.2	25.3	16.8	13.8	7.52
1.80V	336	211	138	94.2	56.4	39.1	25.1	16.6	13.7	7.49
1.85V	299	189	127	87.4	54.0	37.1	23.9	16.0	13.5	7.42

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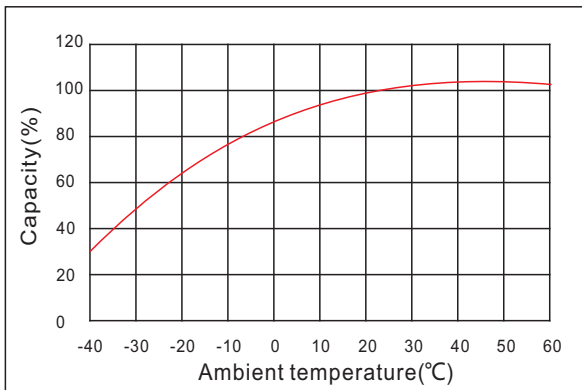
Discharge characteristic



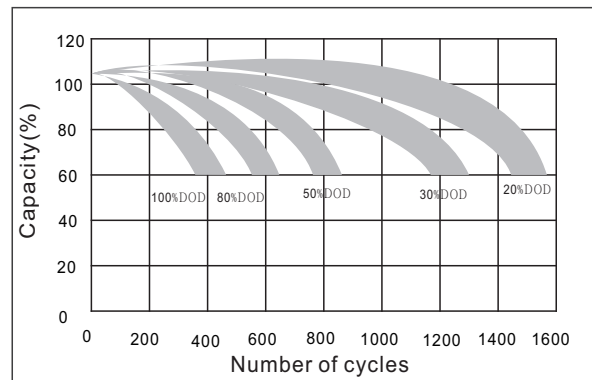
Charging characteristic



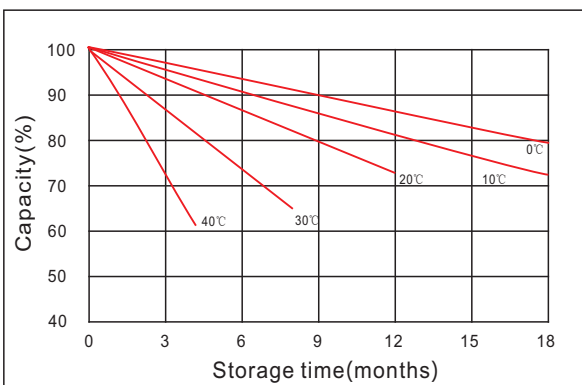
The effect of temperature on capacity



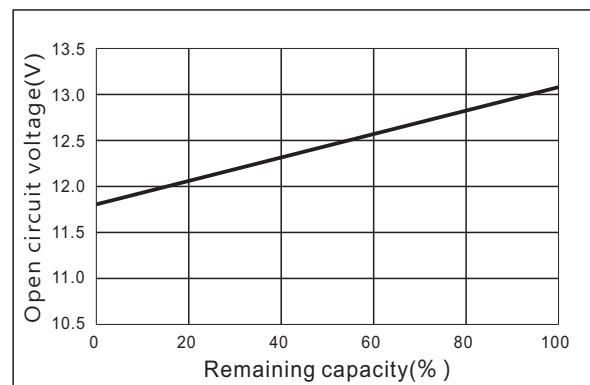
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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