

6-EVF-58.3

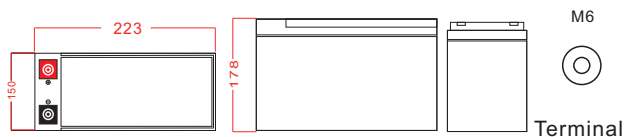


General Features

- 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)×178(H)×178TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	58.3Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx16.0kg (35.36lbs)
Container Material	ABS
	67.4Ah 10Hour Rate (6.74A to 10.5V)
Rated Capacity	58.3Ah 3Hour Rate (19.4A to 10.5V)
	47.6Ah 1Hour Rate (47.6A to 10.5V)
Operating Temperature	Discharge: -20 ~50℃(-4~ 122°F) Charge: -20 ~50℃(-4~ 122°F) Storage: -20 ~50℃(-4~ 122°F)
Charge Method (25 °C)	Float Use:13.7-13.9V@25℃ Cycle Use :14.7-14.9V,@25℃ Max charge current 11.6A
Self discharge	3% of capacity declined per month at 25℃

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

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	267.5	155.8	90.8	49.1	28.3	20.1	12.28	7.76	6.38	3.55
1.65V	259.9	152.3	89.4	48.7	28.1	19.9	13.28	7.70	6.32	3.54
1.70V	249.1	148.7	87.8	48.3	27.9	19.6	12.09	7.64	6.26	3.52
1.75V	229.6	144.0	87.0	47.6	27.5	19.4	12.00	7.58	6.20	3.50
1.80V	204.7	133.4	82.9	46.5	27.0	19.3	11.72	7.52	6.14	3.48
1.85V	183.0	120.4	76.0	43.0	25.6	18.2	11.06	7.21	5.95	3.42

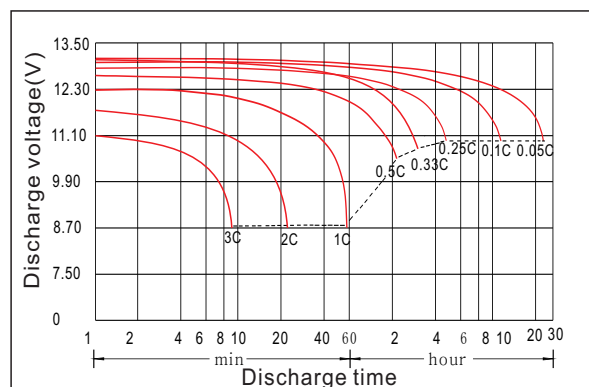
Constant Power Discharge Characteristics Unit: W/cell(25℃, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	448.3	276.2	164.5	92.6	53.4	38.3	23.34	15.09	12.23	7.02
1.65V	431.0	270.3	163.4	92.0	53.3	37.8	23.25	14.90	12.14	6.99
1.70V	428.8	267.9	163.4	91.3	53.1	37.5	23.16	14.90	12.05	6.95
1.75V	399.6	265.6	162.3	90.5	52.9	37.3	22.97	14.72	11.96	6.93
1.80V	367.1	251.4	157.8	89.8	52.7	37.1	22.78	14.72	11.77	6.89
1.85V	328.1	224.3	145.4	83.4	50.3	35.4	21.66	14.17	11.59	6.83

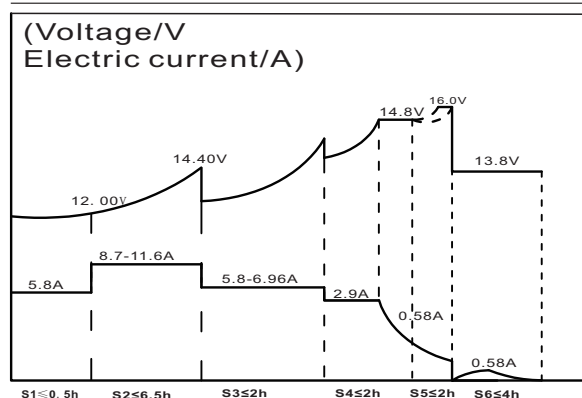
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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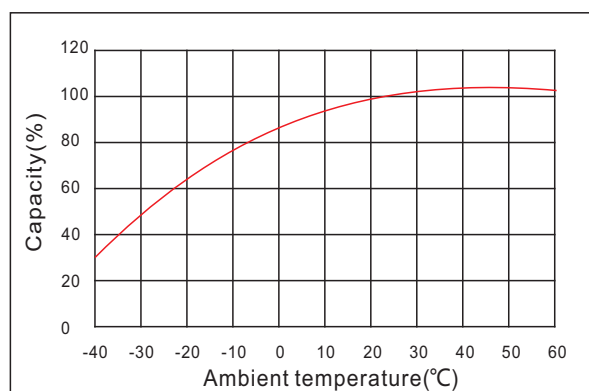
Discharge characteristic



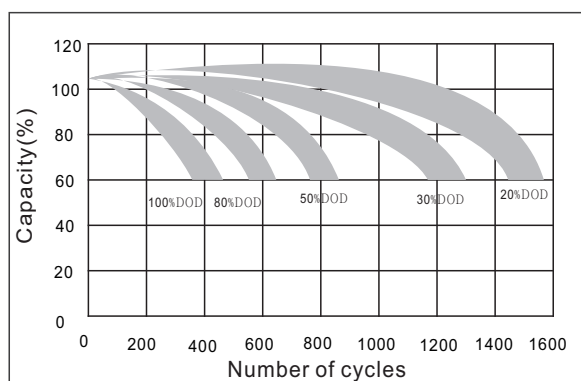
Charging characteristic



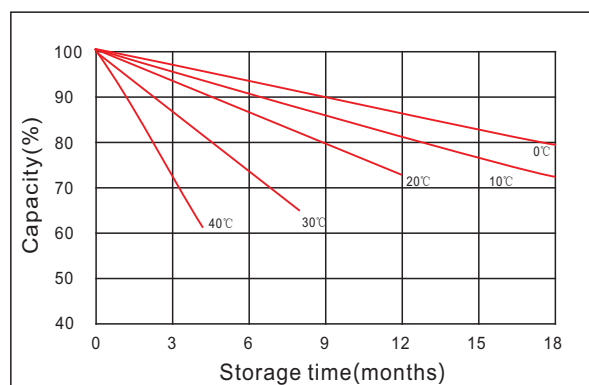
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

