

6-EVF-58.3



Applications

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

General Features

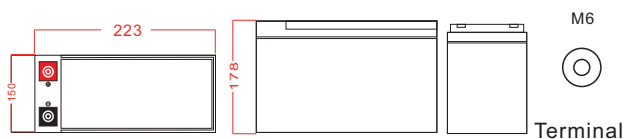
- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate

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)
	58.3Ah 3Hour Rate (19.4A to 10.5V)
	47.6Ah 1Hour Rate (47.6A to 10.5V)
	Discharge: -20 ~50°C(-4~ 122°F)
Operating Temperature	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
	Float Use:13.7-13.9V@25°C
Charge Method (25 °C)	Cycle Use :14.7-14.9V,@25°C
	Max charge current 11.6A
	Self discharge



Dimension: 223(L)×150(W)×178(H)×178TH) Unit: mm



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

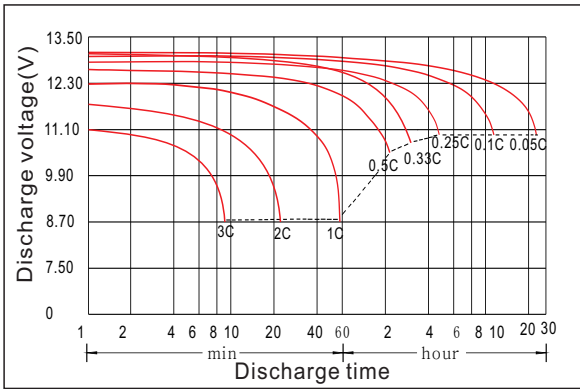
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	267.5	155.8	90.8	49.1	28.3	20.1	12.28	7.76	6.38	3.55
1.65V	259.9	152.3	89.4	48.7	28.1	19.9	13.28	7.70	6.32	3.54
1.70V	249.1	148.7	87.8	48.3	27.9	19.6	12.09	7.64	6.26	3.52
1.75V	229.6	144.0	87.0	47.6	27.5	19.4	12.00	7.58	6.20	3.50
1.80V	204.7	133.4	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°C, 77°F)

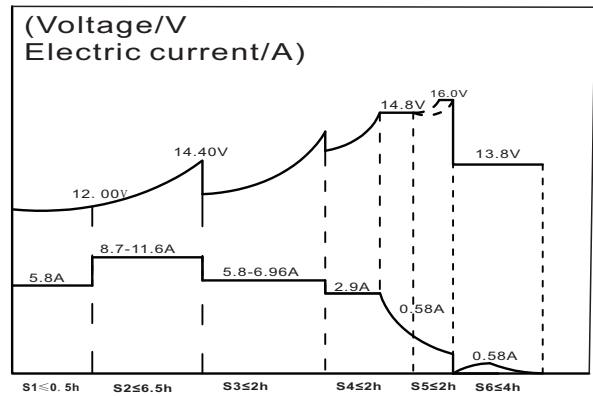
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	448.3	276.2	164.5	92.6	53.4	38.3	23.34	15.09	12.23	7.02
1.65V	431.0	270.3	163.4	92.0	53.3	37.8	23.25	14.90	12.14	6.99
1.70V	428.8	267.9	163.4	91.3	53.1	37.5	23.16	14.90	12.05	6.95
1.75V	399.6	265.6	162.3	90.5	52.9	37.3	22.97	14.72	11.96	6.93
1.80V	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

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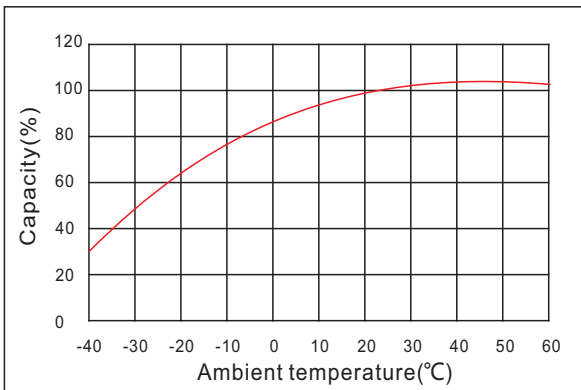
Discharge characteristic



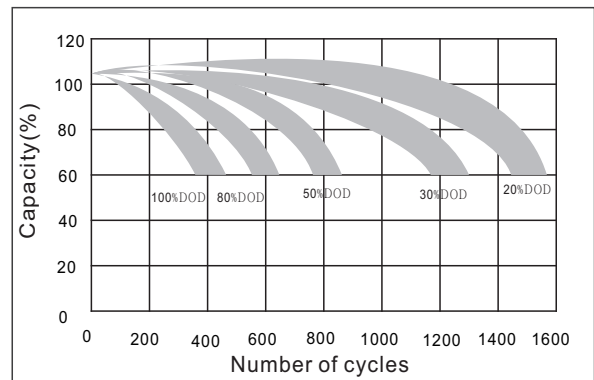
Charging characteristic



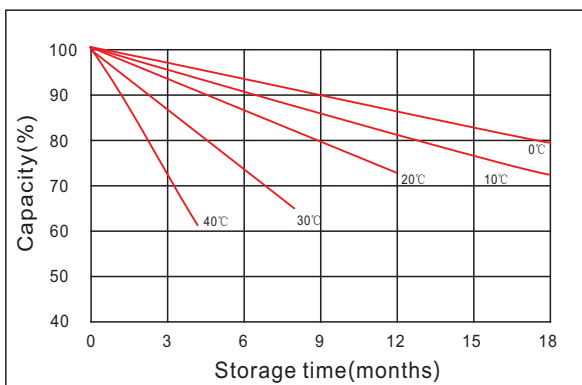
The effect of temperature on capacity



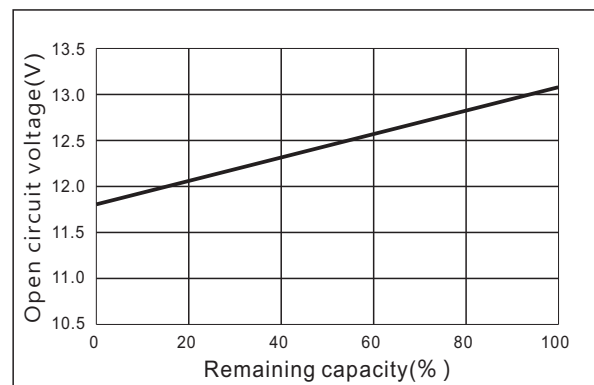
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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