

6-EVF-38.3



Applications

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

General Features

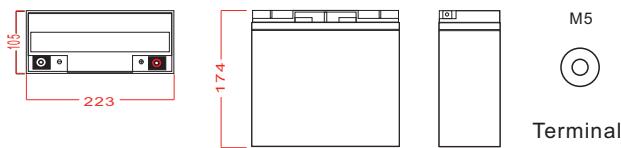
- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate

Specification

Nominal Voltage	12V
Nominal Capacity	38.3Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx 10.8kg (23.86lbs)
Container Material	ABS
	42.0Ah 10Hour Rate (4.20A to 10.5V)
	38.1Ah 3Hour Rate (12.7A to 10.5V)
	30.1Ah 1Hour Rate (30.1A 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)
	Float Use:13.7-13.9V@25°C Cycle Use :14.7-14.9V,@25°C Max charge current 7.6A
Charge Method (25 °C)	
Self discharge	3% of capacity declined per month at 25°C



Dimension: 223(L)×106(W)×174(H)×174(TH) Unit: mm



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

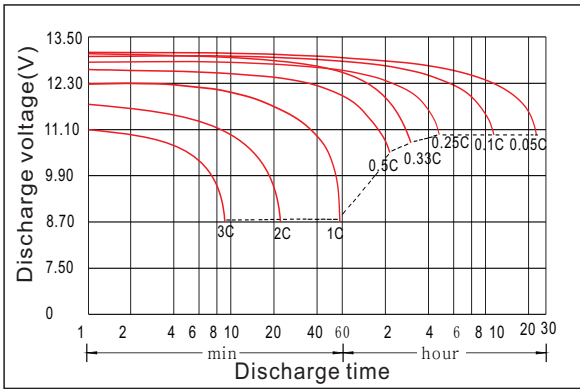
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	175.4	94.0	56.0	34.1	18.5	13.1	8.34	5.36	4.32	2.44
1.65V	170.0	91.2	55.0	33.9	18.4	13.0	8.28	5.31	4.29	2.43
1.70V	163.5	89.1	54.1	33.7	18.3	12.8	8.16	5.27	4.24	2.42
1.75V	150.5	86.4	53.7	33.1	18.0	12.7	8.10	5.23	4.20	2.40
1.80V	134.3	80.2	51.3	32.1	17.7	12.6	7.92	5.19	4.15	2.39
1.85V	120.2	72.0	46.8	29.9	16.7	11.8	7.49	4.98	4.03	2.35

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

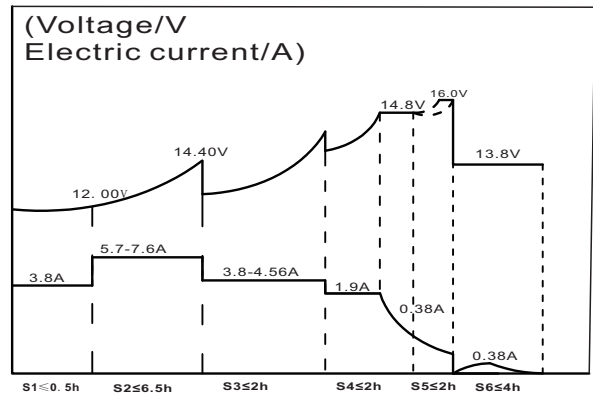
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	293.5	165.7	101.4	64.2	35.1	25.0	15.79	10.46	8.43	4.87
1.65V	282.6	162.4	100.8	63.8	35.0	24.6	15.79	10.27	8.37	4.85
1.70V	281.6	161.4	100.3	63.3	34.8	24.5	15.70	10.27	8.25	4.82
1.75V	262.1	160.3	100.1	62.8	34.6	24.4	15.50	10.17	8.18	4.80
1.80V	240.4	150.5	97.4	62.3	34.5	24.3	15.41	10.17	8.07	4.78
1.85V	214.4	1135	89.3	57.9	33.0	23.1	14.63	9.79	7.94	4.74

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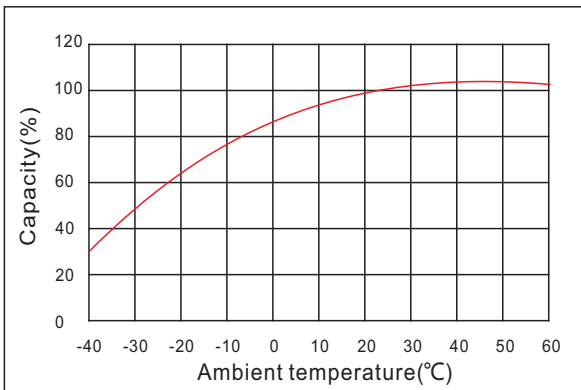
Discharge characteristic



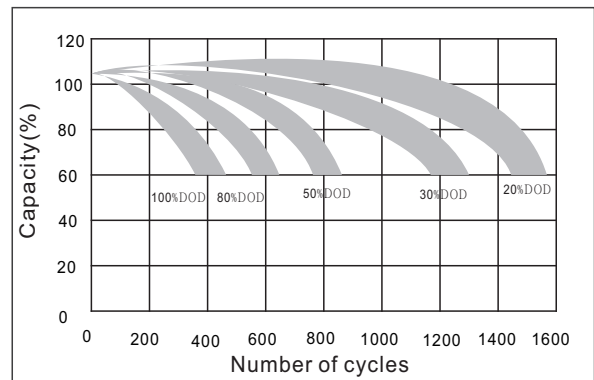
Charging characteristic



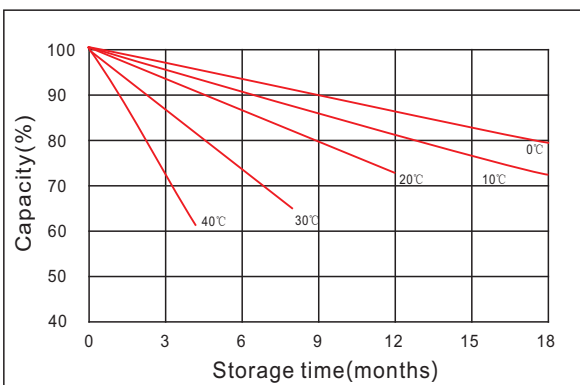
The effect of temperature on capacity



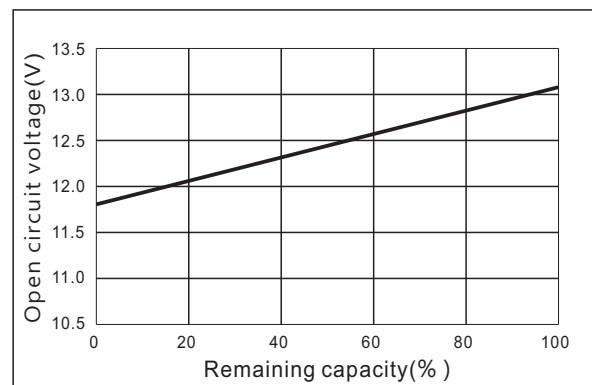
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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