

6-EVF-45.3

Applications

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

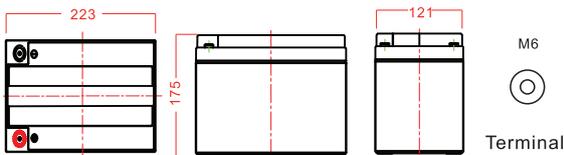


General Features

- > 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



Dimension: 223(L)×121(W)×175(H)×175(TH) Unit: mm



Specification

Nominal Voltage	12V
Nominal Capacity	45.3Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx.12.6kg (27.85lbs)
Container Material	ABS

Rated Capacity	39.0Ah	1Hour Rate (39.0A to 10.5V)
	45.3Ah	3Hour Rate (15.1A to 10.5V)
	48.0Ah	10Hour Rate (4.80A to 10.5V)
	52.0Ah	20Hour Rate (2.8A 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
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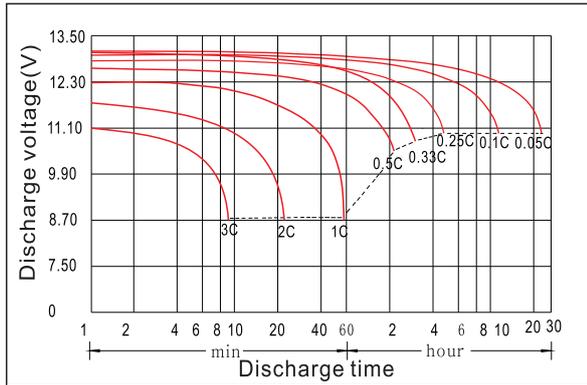
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	206.8	122.1	70.0	40.1	22.1	15.6	9.48	6.01	4.95	2.85
1.65V	201.4	118.3	68.8	39.9	22.0	15.5	9.39	5.97	4.89	2.83
1.70V	193.8	115.6	67.7	39.5	21.8	15.3	9.29	5.91	4.85	2.82
1.75V	177.6	112.0	67.0	39.0	21.5	15.1	9.20	5.86	4.80	2.80
1.80V	159.2	104.1	64.1	38.0	21.1	15.0	9.00	5.83	4.75	2.79
1.85V	141.9	93.4	58.5	35.2	20.0	14.1	8.50	5.58	4.61	2.74

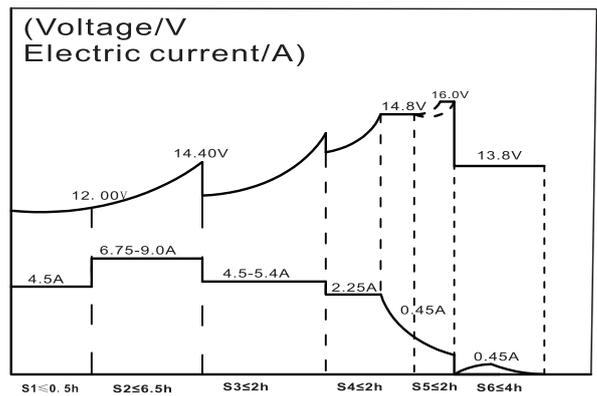
Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	347.6	215.7	126.4	75.8	41.8	29.8	18.03	11.75	9.55	5.63
1.65V	334.6	211.0	126.4	75.2	41.7	29.4	17.94	11.56	9.45	5.61
1.70V	333.5	208.6	126.4	74.6	41.5	29.19	17.75	11.56	9.27	5.58
1.75V	310.8	207.4	125.3	74.1	41.3	28.09	17.66	11.47	9.27	5.55
1.80V	284.8	195.6	121.9	73.5	43.2	27.89	17.47	11.38	9.09	5.52
1.85V	254.5	175.4	111.9	68.2	39.4	27.58	16.63	10.92	8.95	5.48

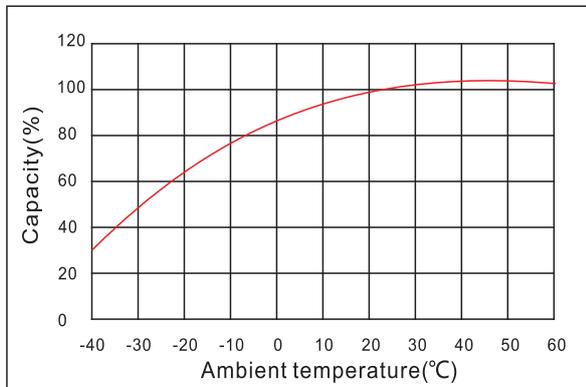
Discharge characteristic



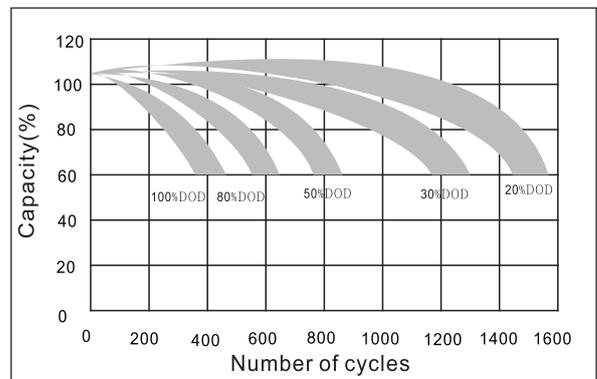
Charging characteristic



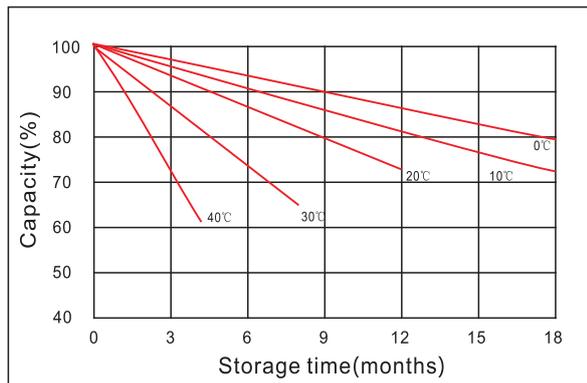
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

