

## 6-EVF-45.3

Executive standard: GB/T 32620.1-2016



### Applications

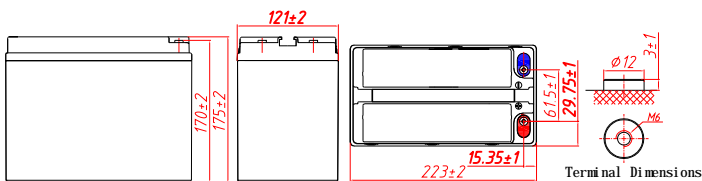
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

### 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 12.4kg (27.3lbs)
Container Material	ABS
	<b>50.0Ah</b> 10Hour Rate (5.00A to 10.5V)
	<b>45.3Ah</b> 3Hour Rate (15.1A to 10.5V)
	<b>36.0Ah</b> 1Hour Rate (36.0A 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 6.80A
Self discharge	3% of capacity declined per month at 25°C

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

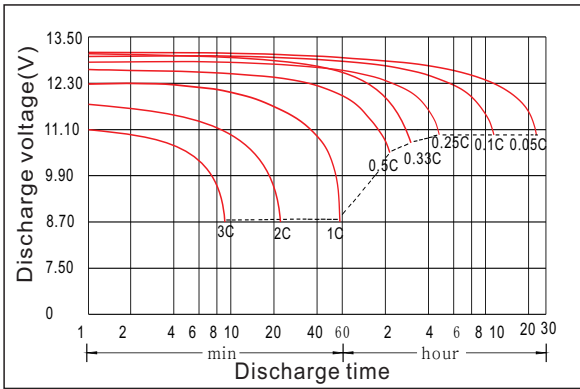
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	173	92.6	54.5	37.0	22.1	15.7	9.38	6.11	5.15	2.79
1.65V	167	89.9	53.5	36.8	22.0	15.5	9.32	6.05	5.10	2.78
1.70V	161	88.3	52.4	36.6	21.8	15.3	9.21	6.00	5.05	2.76
1.75V	148	85.0	52.0	36.0	21.5	15.1	9.10	5.94	5.00	2.75
1.80V	132	79.6	49.7	35.1	21.1	15.0	8.88	5.94	4.95	2.74
1.85V	118	70.8	45.4	32.5	20.0	14.2	8.43	5.67	4.80	2.69

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

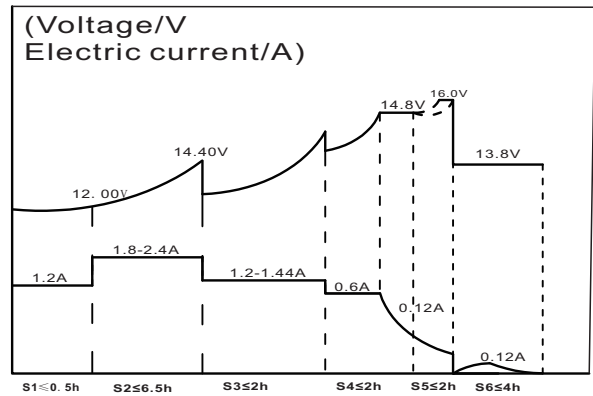
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	290	163	98.5	70.3	41.8	29.8	17.8	11.9	9.90	5.52
1.65V	278	161	97.5	69.7	41.7	29.5	17.7	11.8	9.79	5.50
1.70V	277	159	97.5	69.1	41.5	29.3	17.6	11.7	9.68	5.47
1.75V	258	158	97.0	68.5	41.3	29.1	17.5	11.7	9.63	5.45
1.80V	238	149	94.4	67.8	41.2	29.0	17.3	11.6	9.52	5.42
1.85V	212	133	86.5	63.0	39.3	27.6	16.5	11.2	9.35	5.37

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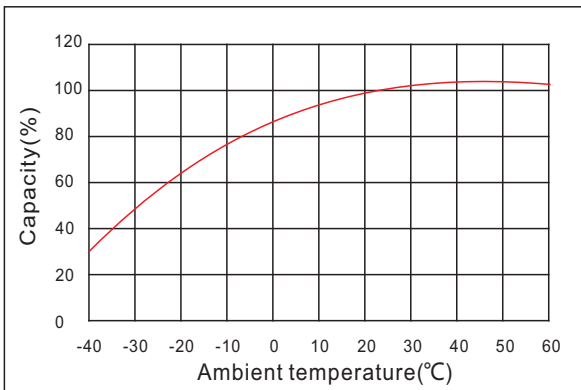
## Discharge characteristic



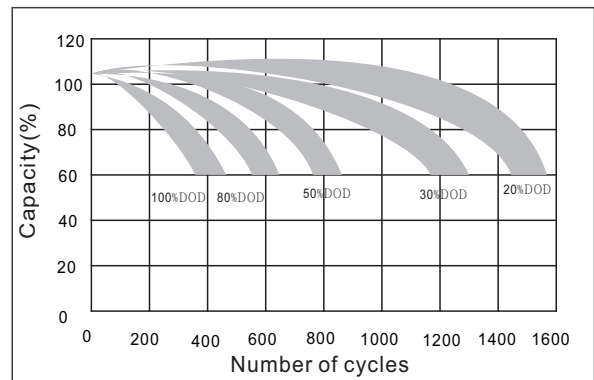
## Charging characteristic



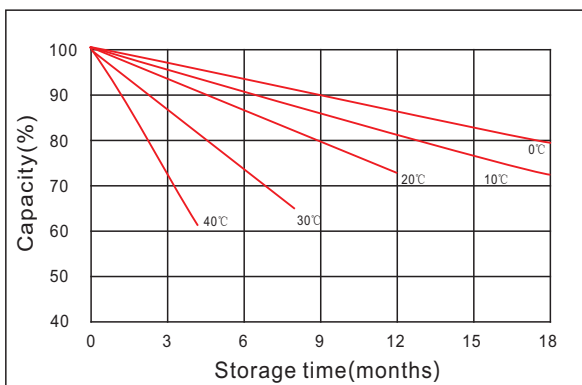
## The effect of temperature on capacity



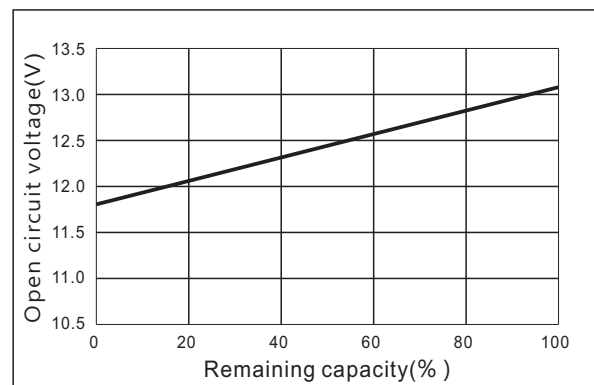
## The effect of discharge depth on cycle life



## Curves of self-discharge



## Curves of open circuit voltage vs. capacity



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