

6-EVF-80

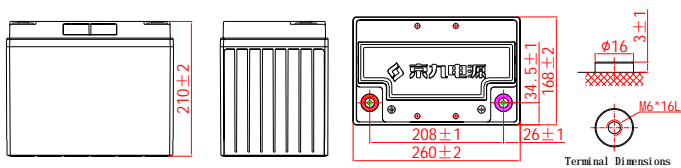


General Features

- 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: 260(L)×168(W)×210(H)×210(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	80Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 26.0kg (57.3lbs)
Container Material	ABS
Rated Capacity	100.0Ah 20Hour Rate (5.00A to 10.5V) 80.0Ah 3Hour Rate (26.7A to 10.5V) 68.0Ah 1Hour Rate (68.0A 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 Cycle Use : 14.7-14.9V,@25 Max charge current 12.0A
Self discharge	3% of capacity declined per month at 25°C

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

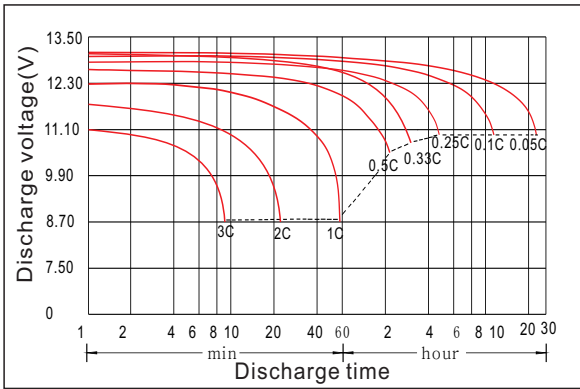
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	111	70.0	38.1	27.7	18.1	11.5	9.68	5.07
1.65V	109	69.5	37.9	27.5	18.0	11.4	9.59	5.05
1.70V	107	69.0	37.5	27.0	17.8	11.3	9.49	5.02
1.75V	106	68.0	37.0	26.7	17.6	11.2	9.40	5.00
1.80V	101	66.3	36.3	26.6	17.2	11.2	9.31	4.98
1.85V	92.5	61.4	34.5	25.1	16.3	10.7	9.03	4.89

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

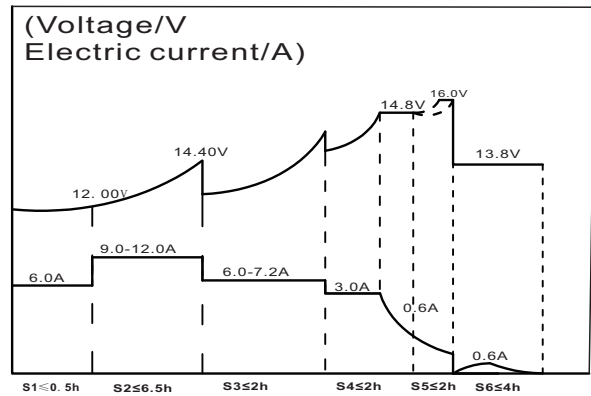
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	201	133	71.9	52.7	34.4	22.3	18.6	10.0
1.65V	199	132	71.7	52.1	34.2	22.1	18.4	10.0
1.70V	199	130	71.5	51.8	34.0	22.0	18.2	9.95
1.75V	198	129	71.0	51.4	33.8	21.9	18.1	9.91
1.80V	192	128	70.8	51.3	33.4	21.7	17.9	9.86
1.85V	176	119	67.7	48.8	31.9	21.0	17.6	9.76

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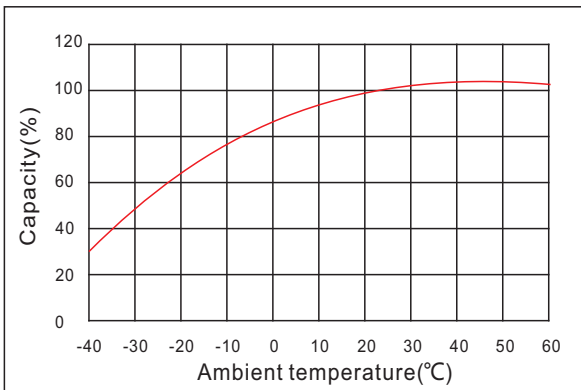
Discharge characteristic



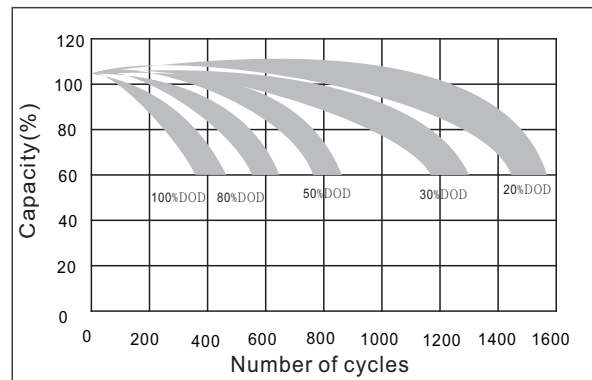
Charging characteristic



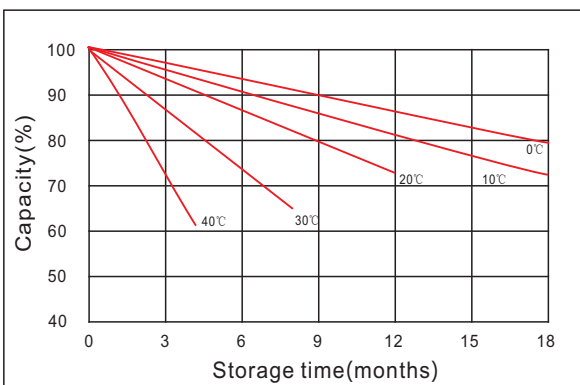
The effect of temperature on capacity



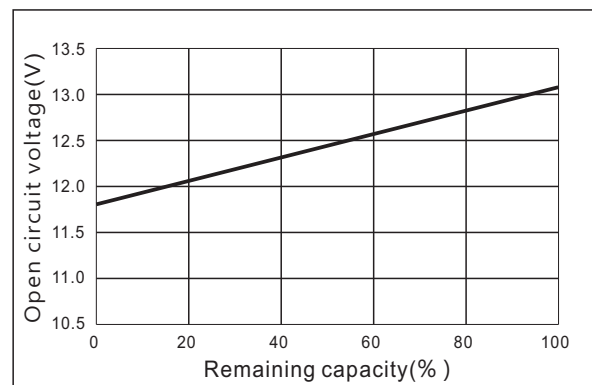
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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