

## 6-EVF-120T

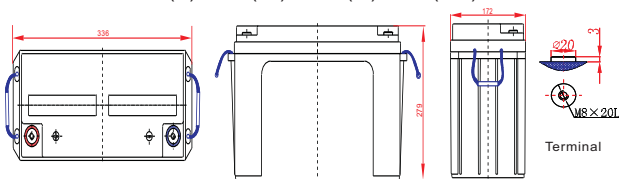


### General Features

- 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: 336(L)×172(W)×279(H)×279(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	120Ah
Design life	5 years
Terminal	M8
Approx. Weight	Approx 41.0kg (90.2lbs)
Container Material	ABS
Rated Capacity	<b>142Ah</b> 10Hour Rate (14.2A to 10.5V) <b>120.0Ah</b> 3Hour Rate (40.0A to 10.5V) <b>94.9Ah</b> 1Hour Rate (94.9A 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 18.0A
Self discharge	3% of capacity declined per month at 25°C

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

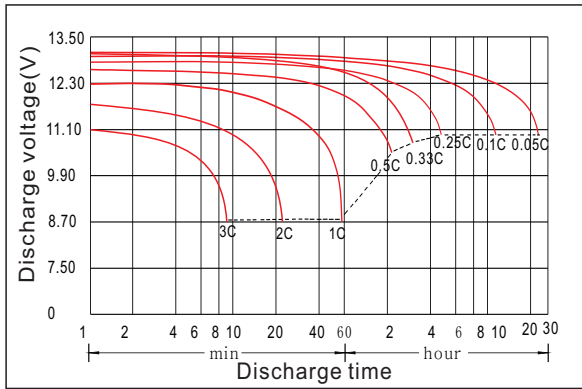
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	516	277	169	98.6	56.5	41.9	27.6	17.7	14.5	7.61
1.65V	500	269	166	98.0	56.3	41.4	27.3	17.5	14.3	7.56
1.70V	480	263	163	97.3	55.8	40.8	27.0	17.4	14.2	7.52
1.75V	441	255	162	95.8	54.9	40.4	26.7	17.2	14.0	7.49
1.80V	396	237	155	93.3	53.9	40.1	26.0	17.1	13.9	7.45
1.85V	352	211	140	86.5	51.2	37.8	24.6	16.4	13.5	7.33

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

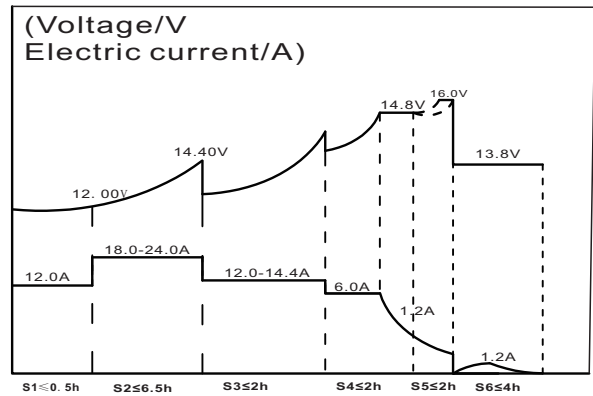
F.V/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	865	488	305	186	107	79.7	52.2	34.3	27.9	15.0
1.65V	831	480	302	185	107	78.7	51.9	34.0	27.6	14.9
1.70V	827	474	302	184	106	78.2	51.5	33.8	27.3	14.9
1.75V	772	471	301	182	106	77.8	51.2	33.6	27.1	14.8
1.80V	708	445	294	181	105	77.5	50.6	33.3	26.8	14.7
1.85V	632	398	269	168	101	73.6	48.4	32.2	26.4	14.6

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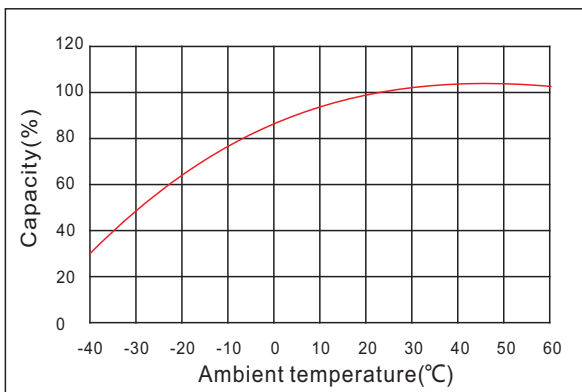
Discharge characteristic



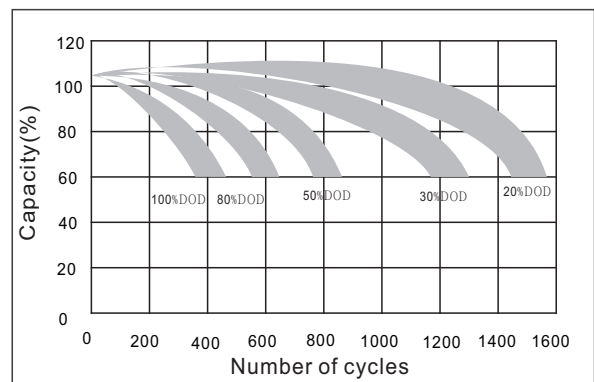
Charging characteristic



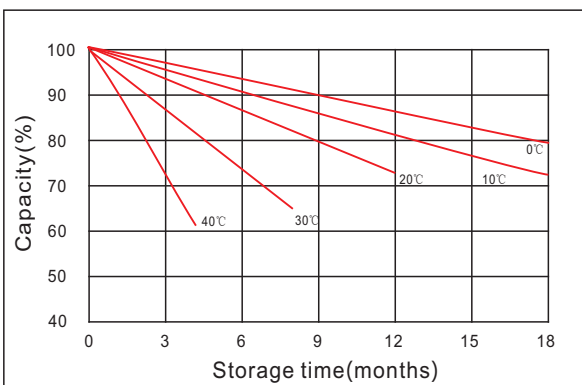
The effect of temperature on capacity



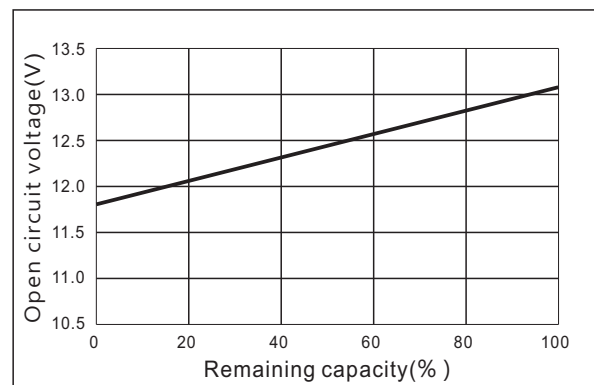
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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