

3-EVF-220

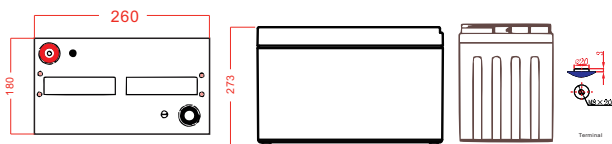


General Features

- > 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)×180(W)×268(H)×273(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	6V
Nominal Capacity	220Ah
Design life	5 years
Terminal	M8
Approx. Weight	Approx35.0kg (77.2lbs)
Container Material	ABS
Rated Capacity	253Ah → 10Hour Rate (25.3A to 5.25V) 220Ah → 3Hour Rate (73.4A to 5.25V) 174Ah → 1Hour Rate (174A to 5.25V)
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:6.85-6.95V@25°C Cycle Use :7.35-7.45V,@25°C Max charge current 44.0A
Self discharge	3% of capacity declined per month at 25°C

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

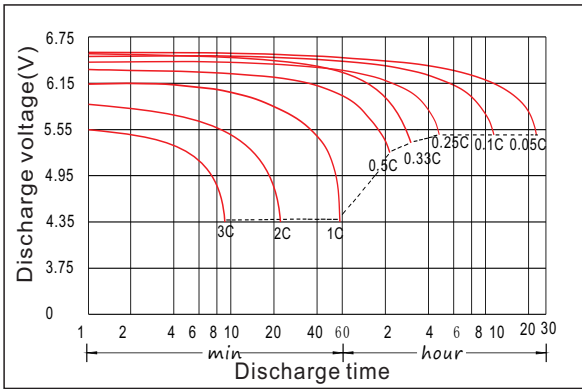
F.V/Time	5Minin	15Minin	30Minin	1h	2h	3h	5h	8h	10h	20h
1.60V	936	503	306	179	103	76.0	49.9	32.0	26.3	13.9
1.65V	908	487	300	178	102	75.2	49.5	31.8	26.1	13.8
1.70V	871	477	296	176	101	74.1	49.0	31.5	25.9	13.6
1.75V	801	462	293	174	100	73.4	48.4	31.2	25.5	13.6
1.80V	718	430	281	169	97.9	72.8	47.1	31.0	25.3	13.5
1.85V	640	384	255	157	93.0	68.5	44.8	29.7	24.5	13.3

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

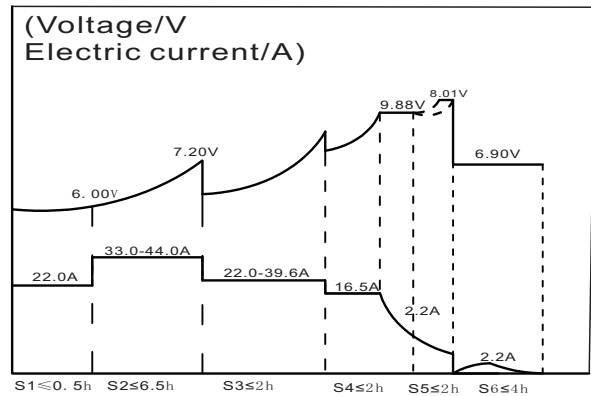
F.V/Time	5Minin	15Minin	30Minin	1h	2h	3h	5h	8h	10h	20h
1.60V	1570	886	553	338	194	144	94.7	62.3	50.6	27.3
1.65V	1509	870	548	336	194	143	94.3	61.7	50.1	27.2
1.70V	1502	860	548	333	193	142	93.5	61.5	49.6	27.1
1.75V	1400	855	546	330	191	141	93.0	60.9	49.1	27.0
1.80V	1286	809	532	328	191	141	91.9	60.5	48.6	26.8
1.85V	1148	723	488	305	183	134	87.8	58.4	47.9	26.6

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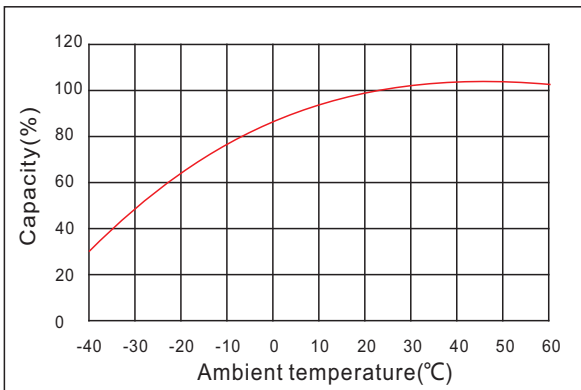
Discharge characteristic



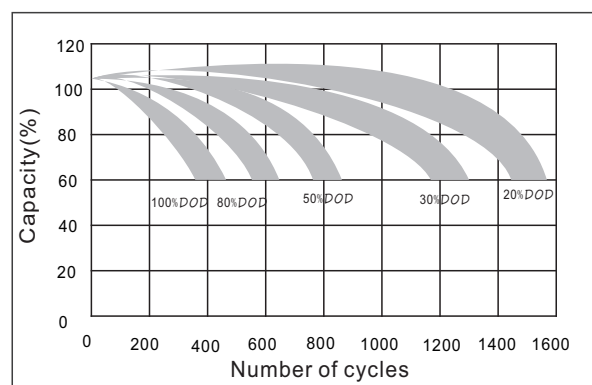
Charging characteristic



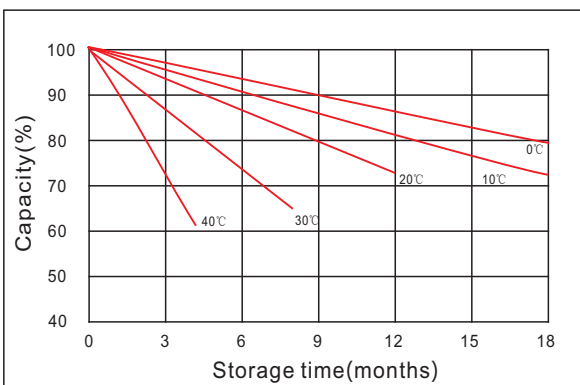
The effect of temperature on capacity



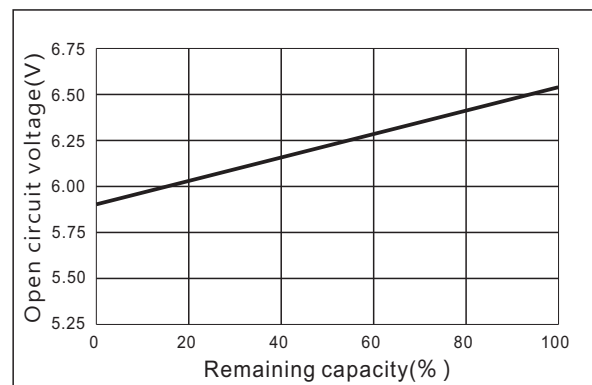
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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