

6-EVF-90



Applications

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

General Features

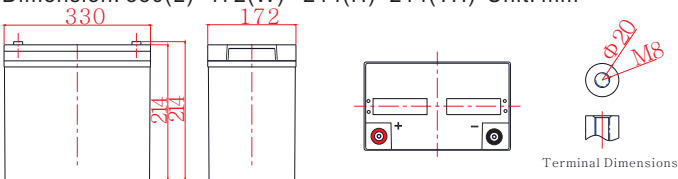
- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate

Specification

Nominal Voltage	12V
Nominal Capacity	90Ah
Design life	5 years
Terminal	M8
Approx. Weight	Approx30.0kg (66.2lbs)
Container Material	ABS
	105Ah 10Hour Rate (10.5A to 10.5V)
	90.0Ah 3Hour Rate (30.0A to 10.5V)
	71.1Ah 1Hour Rate (71.1A 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



Dimension: 330(L)×172(W)×214(H)×214(TH) Unit: mm



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

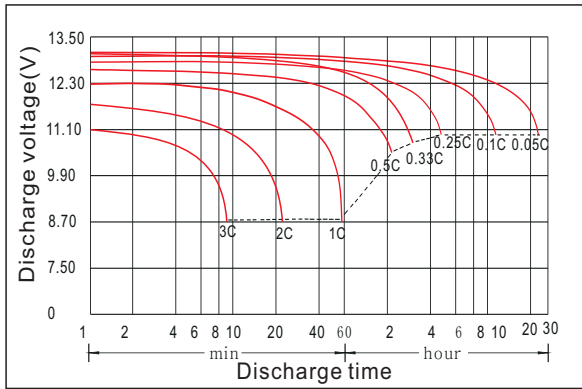
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	383	206	125	73.2	42.0	31.1	20.4	13.1	10.8	5.65
1.65V	371	199	123	72.7	41.7	30.8	20.2	13.0	10.7	5.62
1.70V	356	195	121	72.2	41.4	30.3	20.0	12.9	10.6	5.59
1.75V	328	189	120	71.1	40.8	30.0	19.8	12.8	10.5	5.57
1.80V	294	176	115	69.3	40.0	29.8	19.3	12.7	10.4	5.54
1.85V	262	157	105	64.2	38.0	28.1	18.3	12.2	10.0	5.44

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

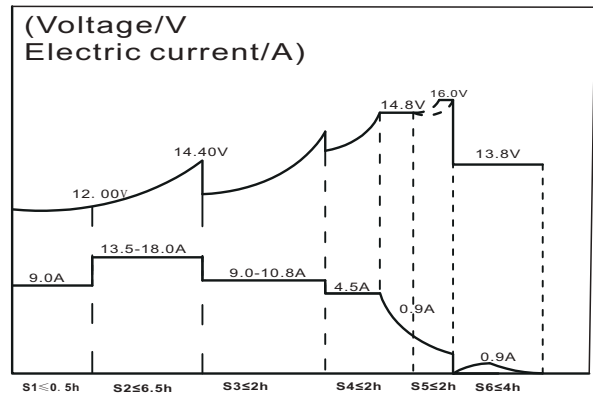
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	642	362	226	138	79.3	59.2	38.8	25.5	20.7	11.2
1.65V	617	356	224	137	79.1	58.4	38.6	25.3	20.5	11.1
1.70V	614	352	224	136	78.8	58.1	38.2	25.2	20.3	11.1
1.75V	573	350	223	135	78.4	57.7	38.0	24.9	20.1	11.0
1.80V	526	331	218	134	78.2	57.5	37.6	24.7	19.9	11.0
1.85V	470	295	200	125	74.7	54.7	35.9	23.9	19.6	10.9

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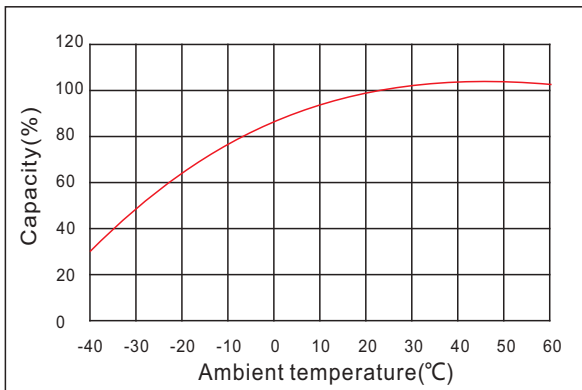
Discharge characteristic



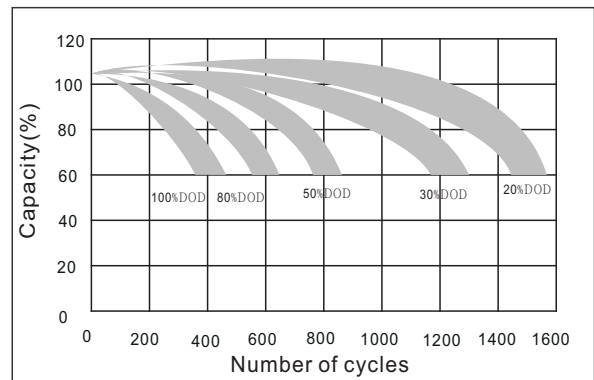
Charging characteristic



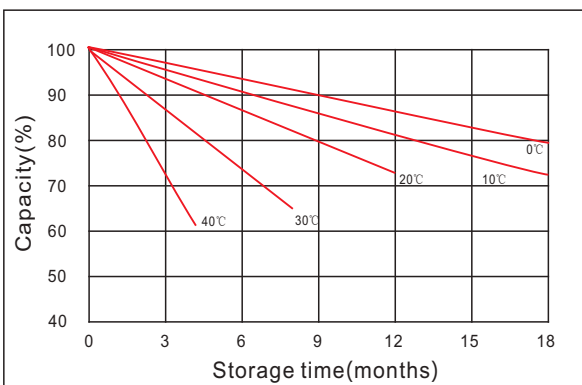
The effect of temperature on capacity



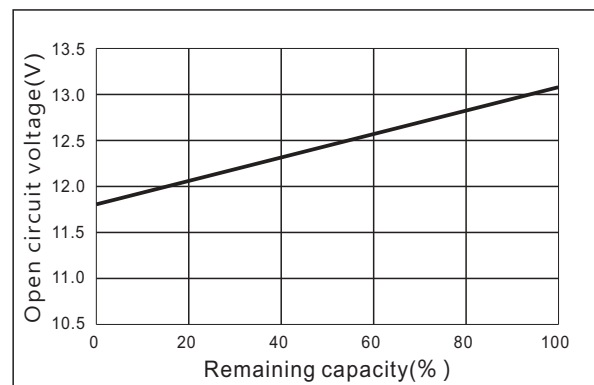
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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