

6-EVF-100



Applications

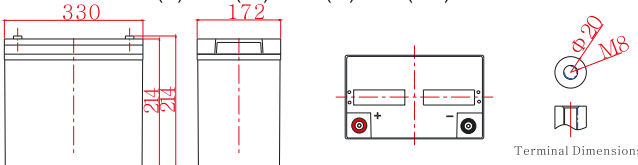
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

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



Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	5 years
Terminal	M8
Approx. Weight	Approx 32.0kg (70.6lbs)
Container Material	ABS
Rated Capacity	116Ah 20Hour Rate (11.6A to 10.5V) 100.0Ah 3Hour Rate (33.3A to 10.5V) 79.1Ah 1Hour Rate (79.1A 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 :14.3-14.5V,@25°C Max charge current 20.0A
Self discharge	3% of capacity declined per month at 25°C

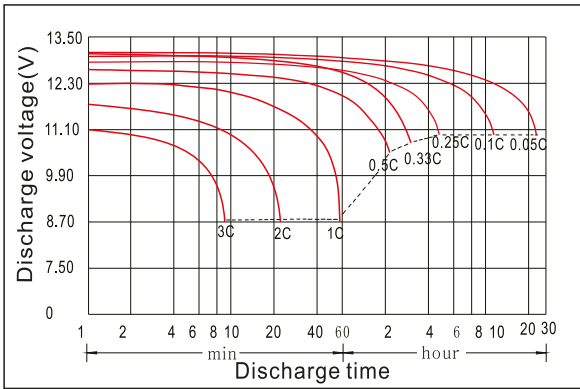
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	426	228	139	81.3	46.6	34.6	22.8	14.6	12.0	6.28
1.65V	413	222	137	80.8	46.4	34.2	22.5	14.4	11.8	6.24
1.70V	396	217	134	80.3	46.0	33.7	22.3	14.3	11.8	6.21
1.75V	364	210	133	79.1	45.3	33.3	22.0	14.2	11.6	6.18
1.80V	327	196	128	77.0	44.5	33.1	21.4	14.1	11.5	6.15
1.85V	291	174	116	71.3	42.3	31.2	20.3	13.5	11.2	6.05

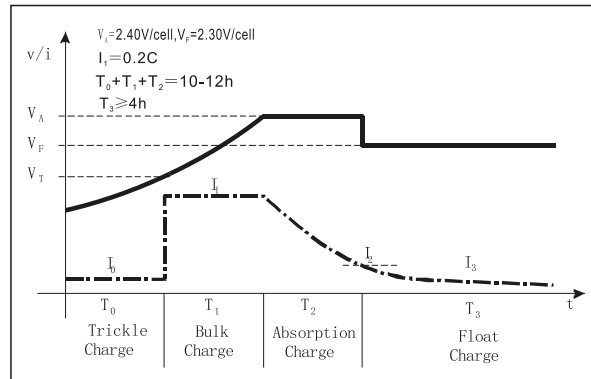
Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	713	403	252	153	88.3	65.8	43.1	28.3	23.0	12.4
1.65V	686	396	249	153	88.3	64.9	42.8	28.1	22.8	12.3
1.70V	683	391	249	152	87.5	64.5	42.5	27.9	22.5	12.3
1.75V	637	388	248	150	87.5	64.2	42.3	27.8	22.3	12.3
1.80V	584	368	243	149	86.7	63.9	41.8	27.5	22.1	12.2
1.85V	522	328	222	138	83.3	60.8	39.9	26.6	21.8	12.1

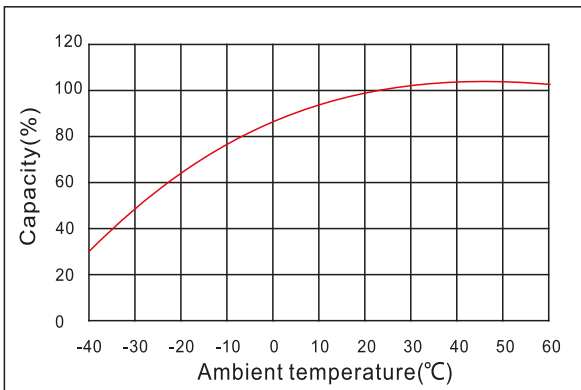
Discharge characteristic



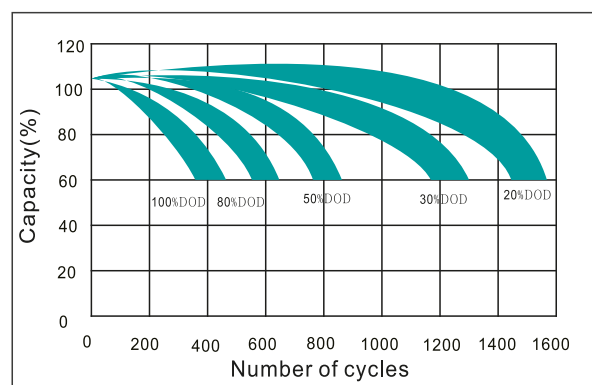
Charging characteristic



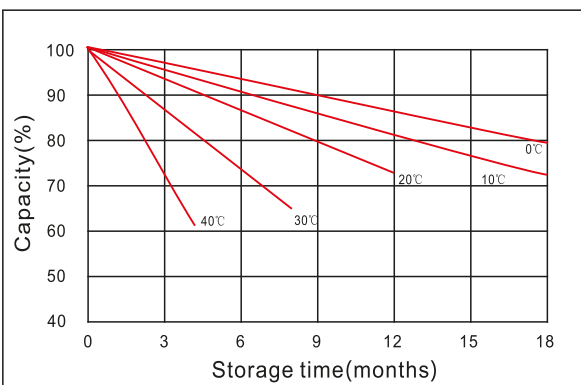
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

