

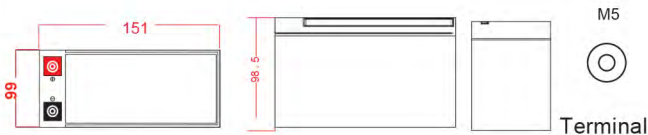


## General Features

- 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: 151(L)×99(W) × 98(H)×98.5(TH) U nit: mm



## Applications

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

## Specification

Nominal Voltage	12V
Nominal Capacity	12Ah
Design life	5 years
Terminal	M5
Approx . Weight	Approx3 .95kg (8 .72lbs)
Container Material	ABS
Rated Capacity	<b>15 .4Ah</b> 10Hour Rate ( 1 .54A to 10 .5V) <b>12 .0Ah</b> 2Hour Rate ( 6 .00A to 10 .5V) <b>10 .5Ah</b> 1 Hour Rate ( 10 .5A to 10 .5V)
Operating Temperature	Discharge: -20 ~50C(-4~ 122°F) Charge: -20 ~50C(-4~ 122°F) Storage: -20 ~50C(-4~ 122°F)
Charge Method (25 °C)	Float Use:13 .7- 13 .9V@25C Cycle Use: 14 .7- 14 .9V,@25C Max charge current 2 .4A
Self discharge	3% of capacity declined per month at 25°C

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

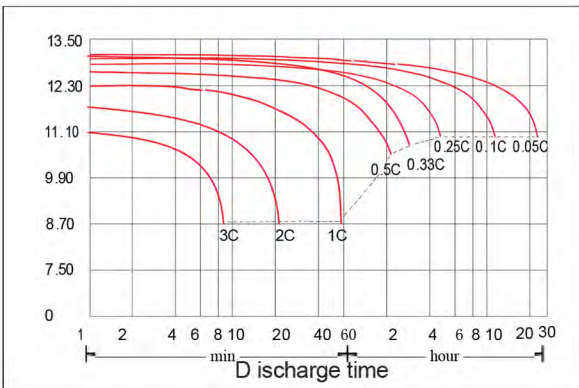
FV/ Time	5 min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	56.4	30.3	18.4	10.8	6.17	4.58	3.01	1.93	1.58	0.83
1.65V	54.6	29.4	18.1	10.7	6.14	4.53	2.98	1.91	1.57	0.83
1.70V	52.5	28.7	17.8	10.6	6.10	4.46	2.95	1.90	1.55	0.82
1.75V	48.2	27.8	17.6	10.5	6.00	4.42	2.91	1.88	1.54	0.82
1.80V	43.2	25.9	16.9	10.2	5.89	4.38	2.84	1.87	1.52	0.81
1.85V	38.6	23.1	15.4	9.45	5.59	4.13	2.70	1.79	1.48	0.80

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

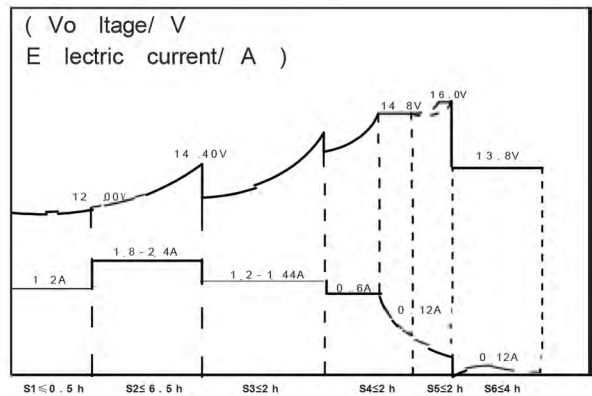
FV/ Time	5 min	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.60V	94.5	53.3	33.3	20.4	11.7	8.70	5.70	3.75	3.05	1.64
1.65V	90.9	52.4	33.0	20.2	11.6	8.59	5.67	3.72	3.02	1.64
1.70V	90.4	51.8	33.0	20.0	11.6	8.54	5.63	3.70	2.99	1.63
1.75V	84.3	51.5	32.8	19.9	11.5	8.50	5.59	3.67	2.95	1.62
1.80V	77.4	48.6	32.1	19.7	11.5	8.46	5.53	3.64	2.92	1.61
1.85V	69.1	43.5	29.4	18.3	11.0	8.05	5.28	3.52	2.88	1.60

## 12 - EVF - 12 Electric Vehicle Battery

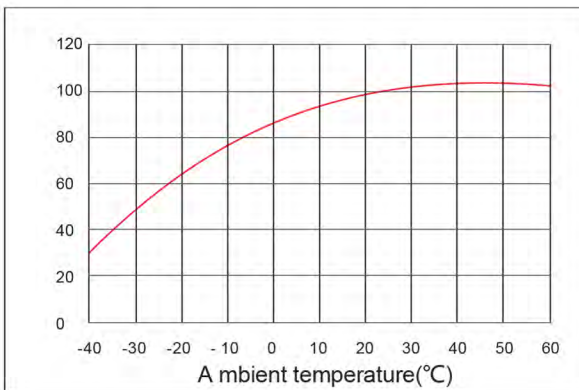
Discharge characteristic



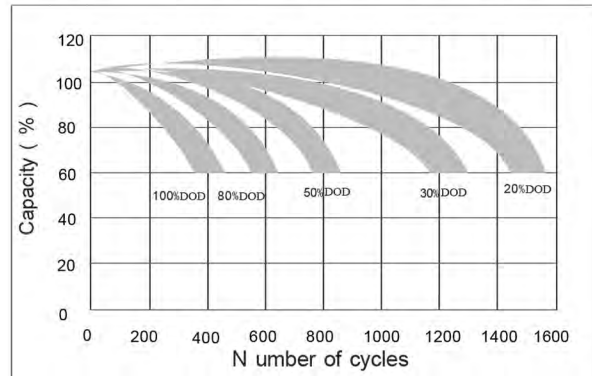
Charging characteristic



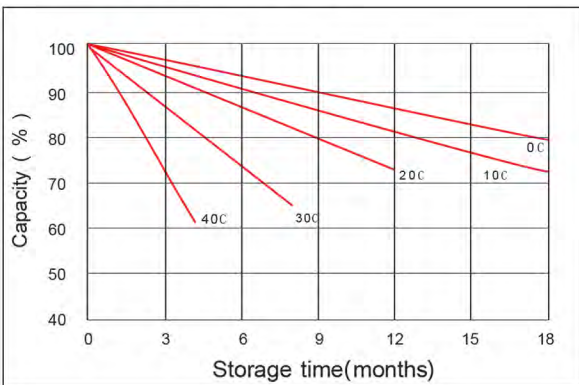
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self - discharge



Curves of open circuit voltage vs capacity

