

# BLACK BATT.

## Electric vehicle battery 12V 80Ah

## BB80-6 EVF

### Applications

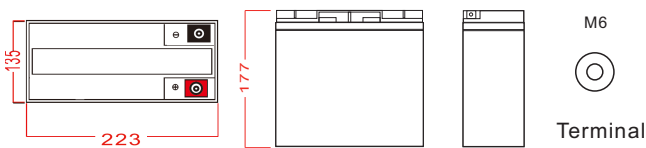
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

### 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: 223(L)×136(W)×177(H)×177(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	55Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx13.4kg
Container Material	ABS
	<b>60.5Ah</b> 10Hour Rate (6.05A to 10.5V)
	<b>52.0Ah</b> 3Hour Rate (17.4A to 10.5V)
	<b>41.2Ah</b> 1Hour Rate (41.2A to 10.5V)
	Discharge: -20 ~50℃(-4~ 122°F)
Operating Temperature	Charge: -20 ~50℃(-4~ 122°F)
	Storage: -20 ~50℃(-4~ 122°F)
	Float Use:13.7-13.9V@25℃
	Cycle Use :14.7-14.9V,@25℃
	Max charge current 10.4A
Self discharge	3% of capacity declined per month at 25℃

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

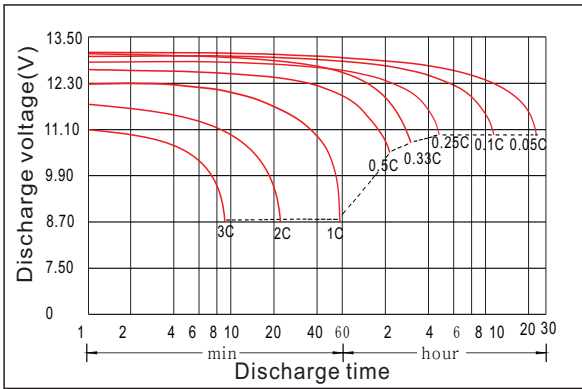
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	222	119	72.4	42.3	24.3	18.0	11.8	7.58	6.23	3.27
1.65V	215	115	71.2	42.1	24.2	17.8	11.7	7.52	6.17	3.25
1.70V	206	113	70.0	41.8	24.0	17.6	11.6	7.46	6.11	3.23
1.75V	190	109	69.3	41.2	23.6	17.4	11.5	7.40	6.05	3.22
1.80V	170	102	66.3	40.1	23.2	17.2	11.2	7.34	5.99	3.20
1.85V	152	90.9	60.5	37.2	22.0	16.2	10.6	7.04	5.81	3.15

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

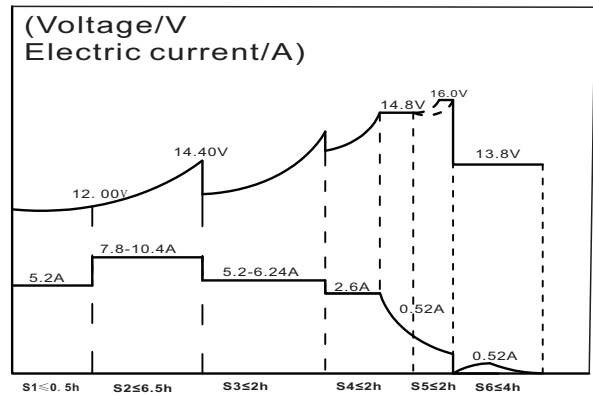
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	372	210	131	80.1	45.9	34.2	22.4	14.7	12.0	6.47
1.65V	357	206	130	79.5	45.8	33.8	22.3	14.6	11.9	6.44
1.70V	356	204	130	78.8	45.6	33.6	22.1	14.6	11.7	6.41
1.75V	332	202	129	78.2	45.4	33.4	22.0	14.4	11.6	6.38
1.80V	304	191	126	77.6	45.2	33.3	21.8	14.3	11.5	6.35
1.85V	272	171	116	72.1	43.2	31.7	20.8	13.8	11.3	6.29

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

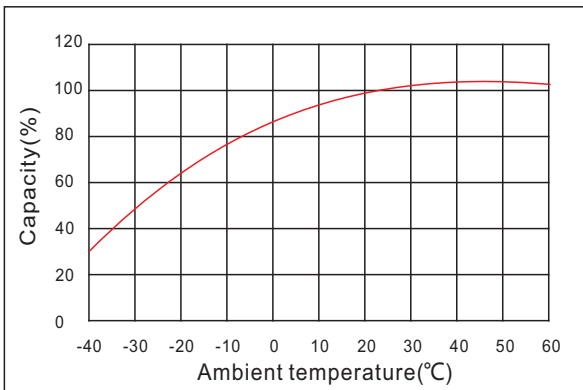
### Discharge characteristic



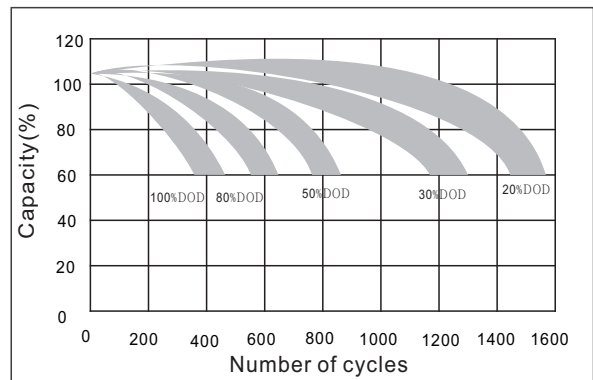
### Charging characteristic



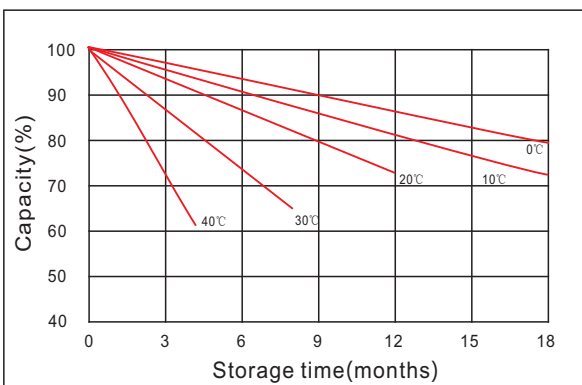
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

