

# 12Volt 80Ah

## ⚡ EV Series Battery

EV Series batteries are High energy density, heavy-duty lead calcium multi-element alloy grid, lead plate added with special additives, high conductivity terminal, to ensure the battery more durable for large current discharging.

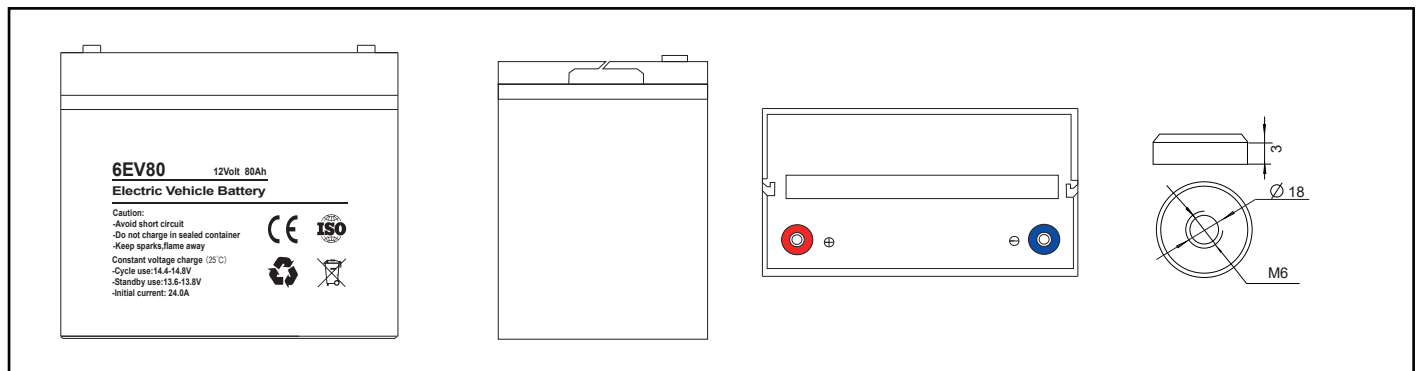
Applications: electric cars, golf carts, tourist cars, electric buses, electric cleaning cars, elderly walkers, electric toy cars.

## ⚡ Specification

Battery Model	Nominal Voltage	12V		
	Rated capacity (3Hour rate)	80Ah		
	Cells Per battery	6		
Dimension	Length	Width	Height	Total Height
	269mm	169mm	208mm	208mm
Approx Weight	26.0Kg			
Internal Resistance	Full charged at 25°C (77°F): Approx 10mΩ			
Max. discharge current	1200A(5s)			
Design service life @ 25°C (77°F)	DOD 80% (800 cycle)			
Capacity @ 25°C (77°F)	10Hour rate(9.28A/10.8V)	5Hour rate(16.8A/10.5V)	3Hour rate(26.8A/10.5V)	1Hour rate(60A/9.60V)
	92.8Ah	84Ah	80.4Ah	60Ah
Capacity affected by Temp(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C(5°F)
	102%	100%	85%	65%
Self Discharge @ 25°C (77°F)	After 3 months storage	After 6 months storage	After 12 months storage	
	91%	82%	64%	

## ⚡ Outer dimension (mm)

## ⚡ Terminal Type (mm)

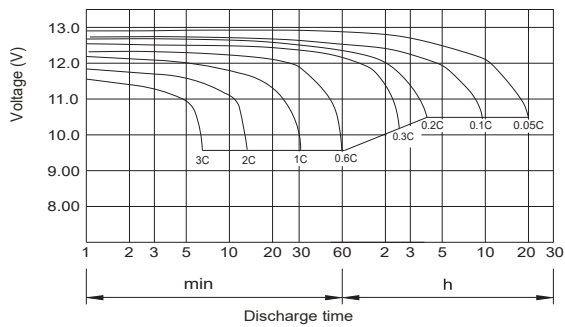


## ⚡ Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

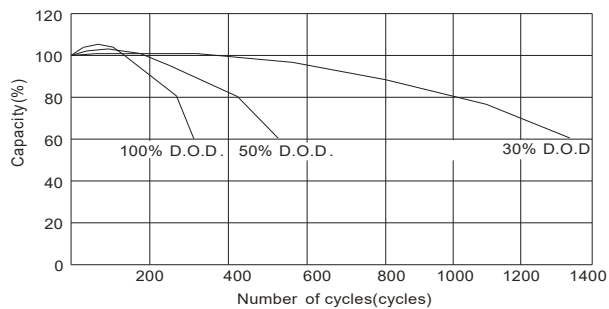
F.V./TIME		10min	15min	30min	60min	2H	3H	5H	10H
1.60V/cell	A	211.2	122.7	92.8	60.6	38.6	27.4	18.5	9.8
	W	371.7	225.6	171.0	114.7	74.5	53.3	36.3	19.3
1.70V/cell	A	201.4	117.3	89.5	58.7	38.1	26.9	18.3	9.6
	W	365.4	219.0	168.4	113.5	73.8	53.0	36.2	19.2
1.75V/cell	A	196.8	114.9	88.0	58.1	37.3	26.7	18.1	9.6
	W	361.6	217.6	166.9	112.5	73.6	52.9	36.2	19.2
1.80V/cell	A	192.0	112.0	86.2	57.0	36.6	26.1	17.6	9.1
	W	353.1	212.8	163.6	109.9	72.0	51.7	35.2	18.7

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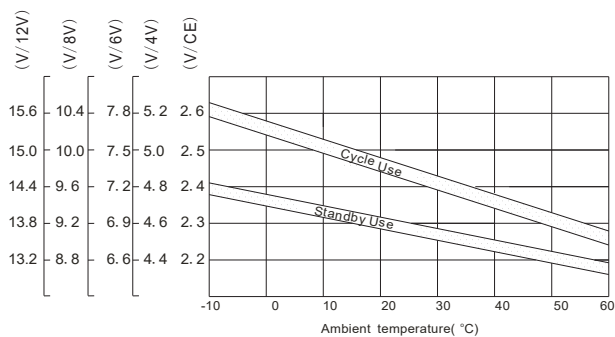
### Discharge characteristic Curve



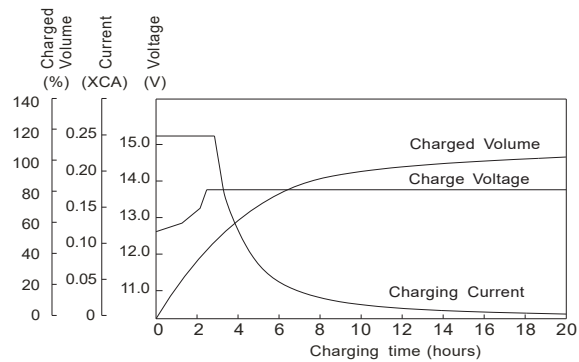
### Cycle service life in relation to depth of discharge



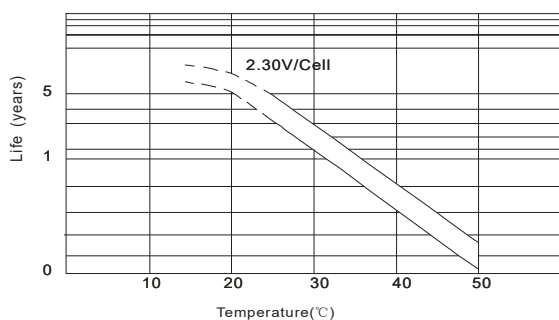
### Relationship between charging voltage and temperature



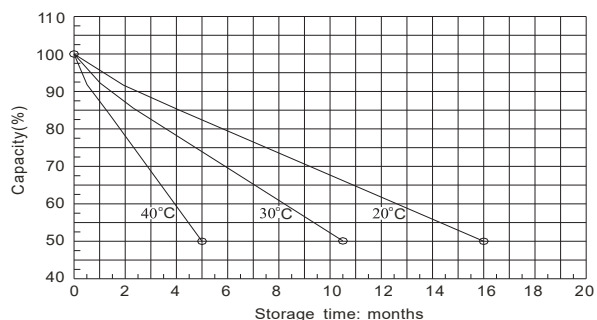
### Constant voltage charging characteristic (0.25CA, at 25 °C)



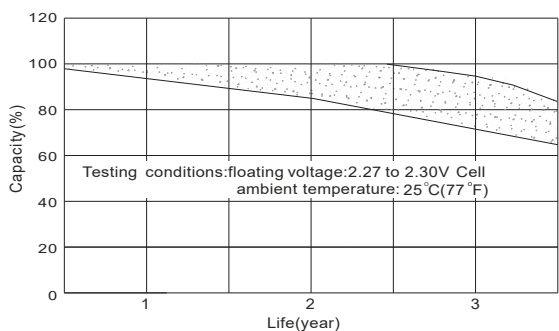
### Temperature effects on float life



### Self-discharge characteristic



### Life characteristics of standby use



### Charge characteristic Curve for standby use

