

# 6EV100

## 12Volt 100Ah

### 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.

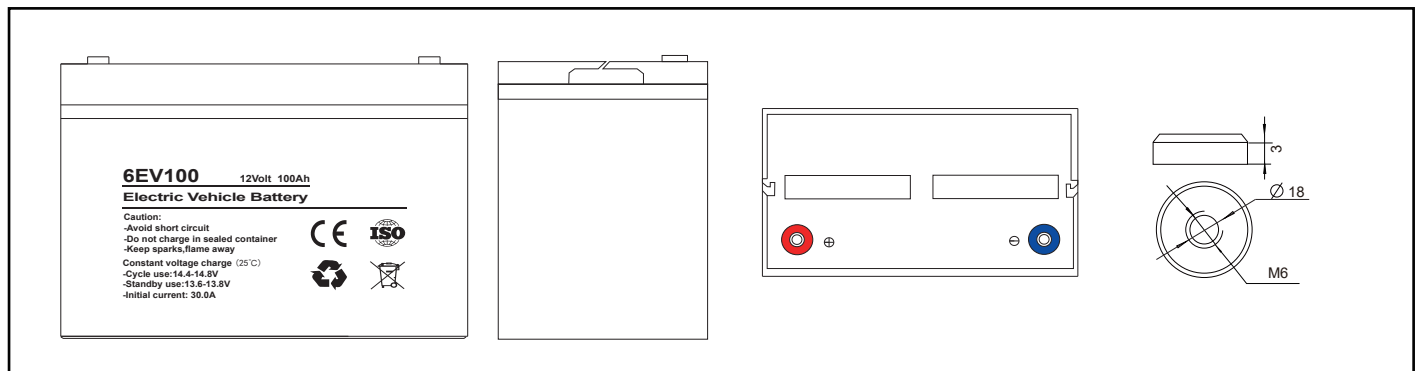
Applications: electric cars, golf carts, tourist cars, electric buses, electric cleaning cars, elderly walkers, electric toy cars.

### Specification

Battery Model	Nominal Voltage	12V		
	Rated capacity (3Hour rate)	100Ah		
	Cells Per battery	6		
Dimension	Length	Width	Height	Total Height
	331mm	173mm	213mm	233mm
Approx Weight	33Kg			
Internal Resistance	Full charged at 25°C (77°F): Approx 6mΩ			
Max. discharge current	1500A(5s)			
Design service life @ 25°C (77°F)	DOD 80% (800 cycle)			
Capacity @ 25°C (77°F)	10Hour rate(11.6A/10.8V)	5Hour rate(21A/10.5V)	3Hour rate(33.5A/10.5V)	1Hour rate(75A/9.60V)
	116Ah	105Ah	100.5Ah	75Ah
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)

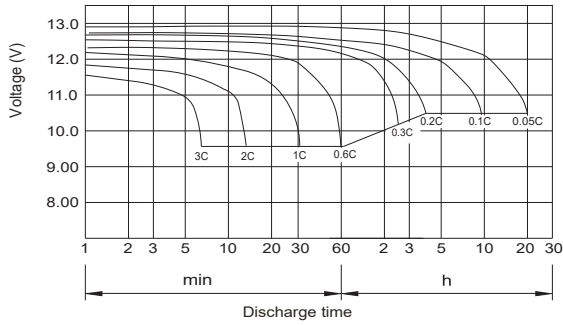


### Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

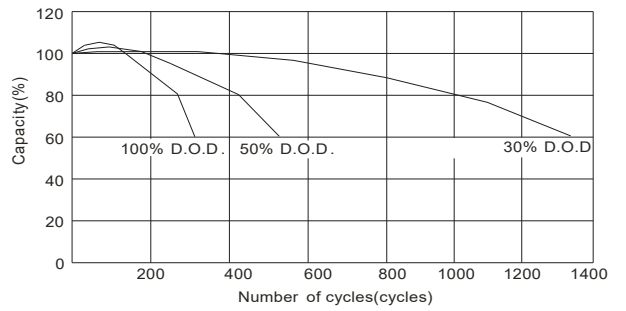
F.V/TIME		10min	15min	30min	60min	2H	3H	5H	10H
1.60V/cell	A	264.0	153.3	116.0	75.7	48.2	34.3	23.2	12.2
	W	464.7	282.0	213.7	143.3	93.1	66.7	45.4	24.1
1.70V/cell	A	251.8	146.7	111.9	73.3	47.6	33.6	22.8	12.1
	W	456.8	273.7	210.5	141.9	92.2	66.3	45.2	24.0
1.75V/cell	A	246.0	143.7	110.0	72.7	46.7	33.3	22.7	12.0
	W	452.0	272.0	208.7	140.7	92.0	66.1	45.2	24.0
1.80V/cell	A	240.0	140.0	107.8	71.2	45.7	32.7	22.0	11.3
	W	441.3	266.0	204.5	137.3	90.0	64.7	44.0	23.3

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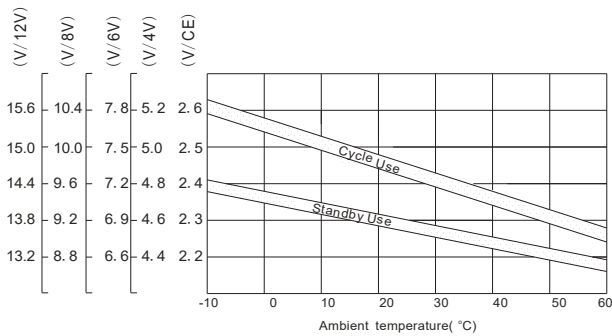
### Discharge characteristic Curve



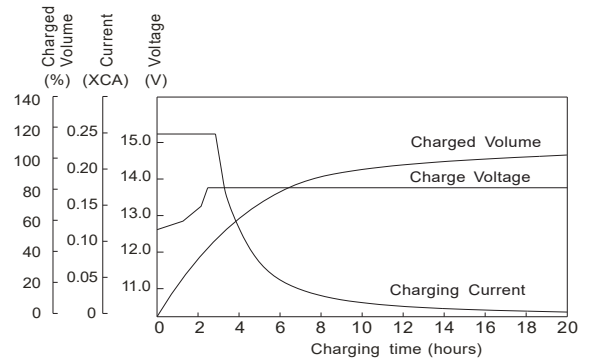
### Cycle service life in relation to depth of discharge



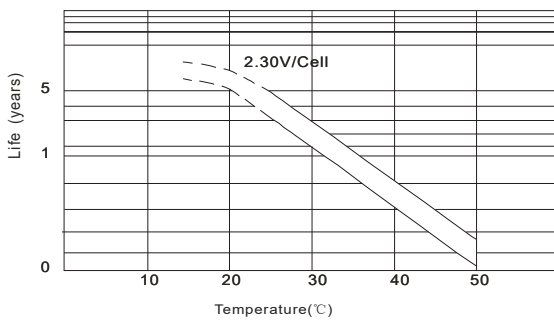
### Relationship between charging voltage and temperature



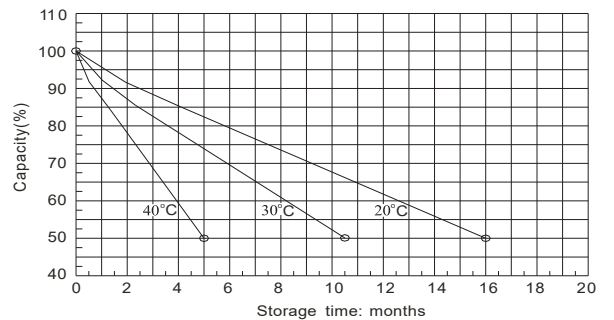
### Constant voltage charging characteristic (0.25CA, at 25 °C)



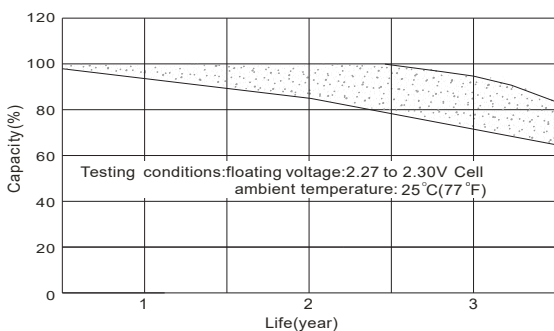
### Temperature effects on float life



### Self-discharge characteristic



### Life characteristics of standby use



### Charge characteristic Curve for standby use

