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# EVH 12150X2 ▶ 12V 15Ah

EVH 12150x2 (2<sup>nd</sup> generation) is designed specially for electric vehicles, such as electric golf cart, electric wheelchair, mower, dust collector...etc. It has high cycling life, high efficiency and long service life.



## ► Specification

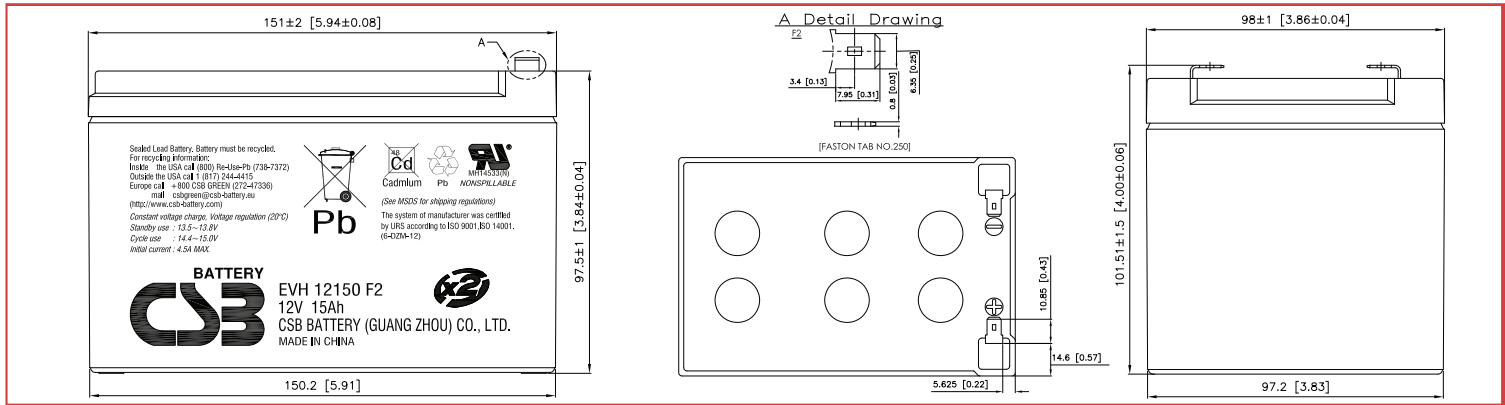
<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	15Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
<b>Weight</b>	Approx. 4.6 kg (10.14 lbs)
<b>Maximum Discharge Current</b>	180A(5sec)
<b>Internal Resistance</b>	Approx. 11 mΩ
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15 °C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
<b>Nominal Operating Temperature Range</b>	25°C±3°C(77°F±5°F)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C(77°F)
<b>Recommended Maximum Charging Current Limit</b>	4.5A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C(77°F)
<b>Self Discharge</b>	CSB Batteries can be stored for more than 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
<b>Terminal</b>	F2-Faston Tab 250
<b>Container Material</b>	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



CSB-manufactured batteries are UL-recognized components under UL924 and UL1989. CSB is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	101.8±1.5 (4.01±0.06)	97.5±1 (3.8±0.04)	151±2 (5.94±0.08)



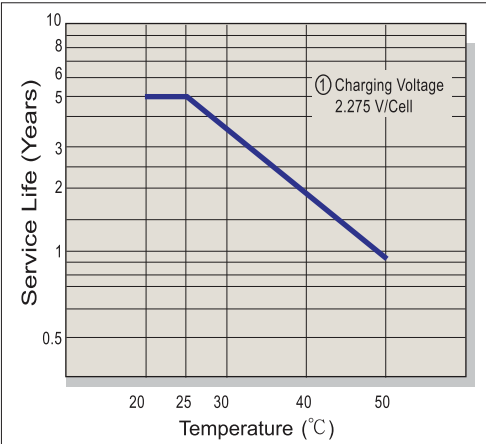
## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	34.0	19.5	11.2	7.85	6.18	4.33	2.72	1.75	1.43	0.78
1.67V	33.3	19.3	11.0	7.79	6.11	4.25	2.68	1.73	1.41	0.77
1.70V	32.6	19.0	10.9	7.70	6.02	4.18	2.64	1.70	1.39	0.76
1.75V	31.7	18.7	10.7	7.60	5.93	4.10	2.59	1.67	1.37	0.75
1.80V	30.8	18.5	10.6	7.50	5.83	4.02	2.54	1.64	1.34	0.74
1.85V	29.7	18.1	10.4	7.38	5.72	3.94	2.49	1.61	1.32	0.71

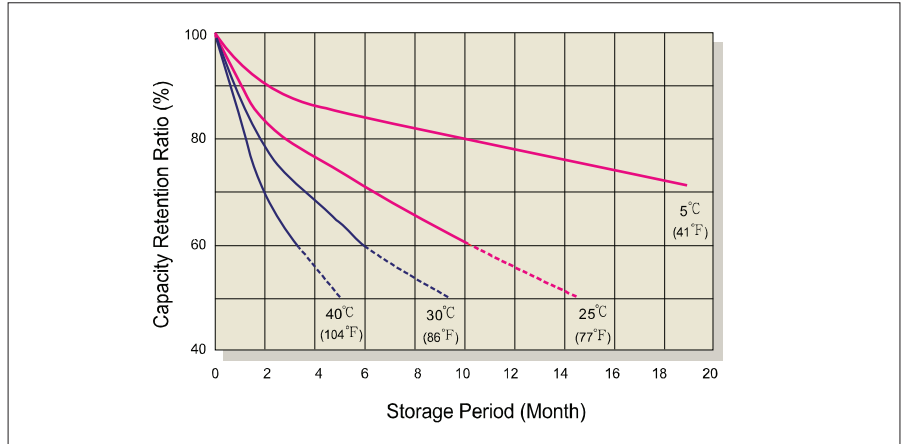
## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	380	221	129	91.4	71.0	49.6	31.9	21.0	17.1	8.98
1.67V	378	220	128	90.8	70.5	49.2	31.7	20.9	17.0	8.96
1.70V	376	218	127	89.9	70.0	49.0	31.5	20.8	16.9	8.92
1.75V	368	215	125	88.7	69.4	48.8	31.1	20.7	16.8	8.82
1.80V	359	211	123	87.3	68.6	47.9	30.7	20.5	16.7	8.74
1.85V	340	206	121	85.3	66.6	46.7	29.6	19.9	16.4	8.52

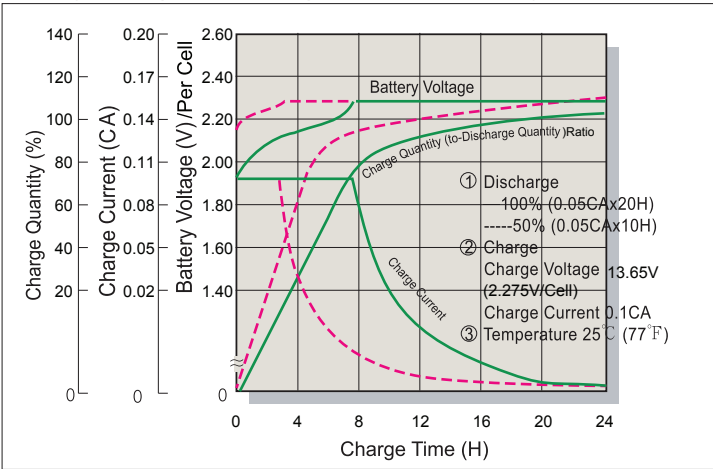
### Trickle (or Float) Service Life



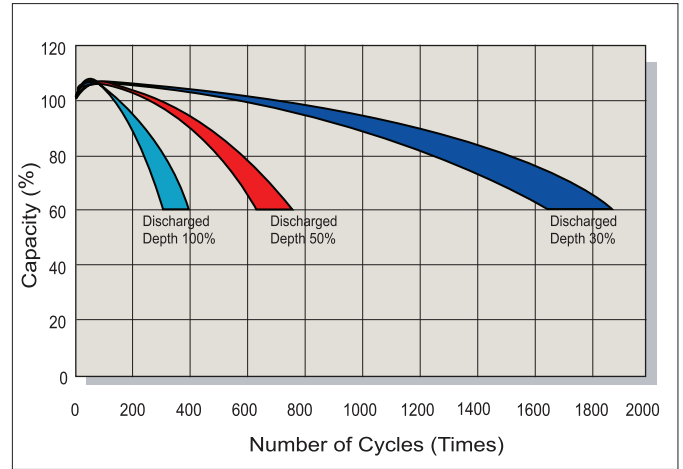
### Capacity Retention Characteristic



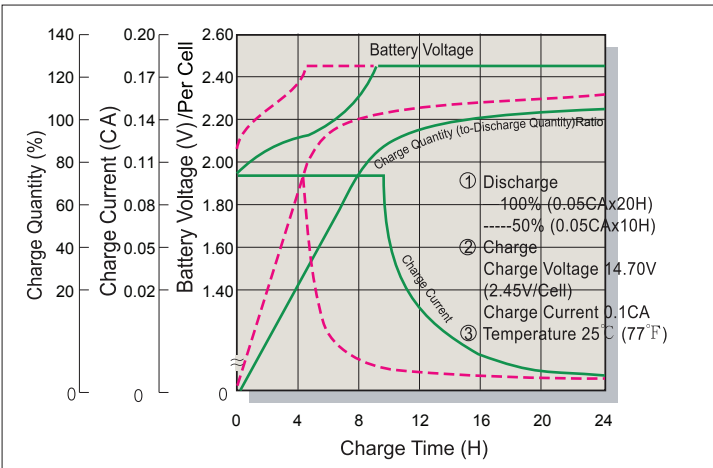
### Battery Voltage and Charge Time for Standby Use



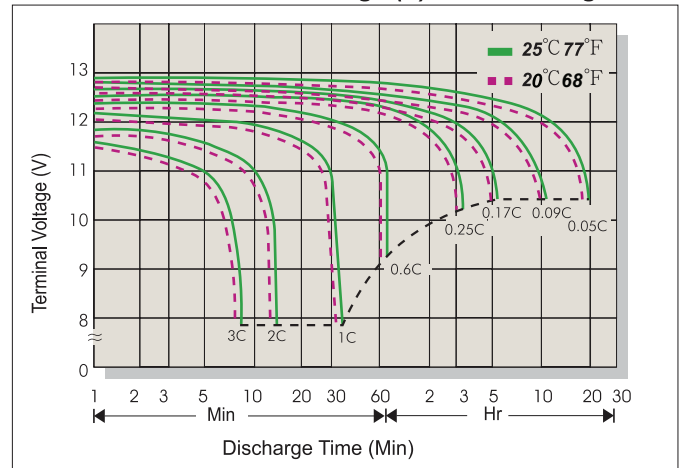
### Series Cycle Service Life



### Battery Voltage and Charge Time for Cycle Use



### Terminal Voltage (V) and Discharge Time



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.3C
Standby	25°C(77°F)	2.275	2.25~2.30	

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C<(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

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