

Powered by



EVH 12150X3 ▶ 12V 15Ah

EVH 12150x3 (3rd generation) is designed specially with increase cycle performance and reliability from previous generations in electric vehicles application. It has high cycling life, high efficiency and long service life.



► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	15Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 4.6 kg (10.14 lbs)
Maximum Discharge Current	180A(5sec)
Internal Resistance	Approx. 11 mΩ
Operating Temperature Range	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)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	4.5A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	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.
Terminal	F2-Faston Tab 250
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



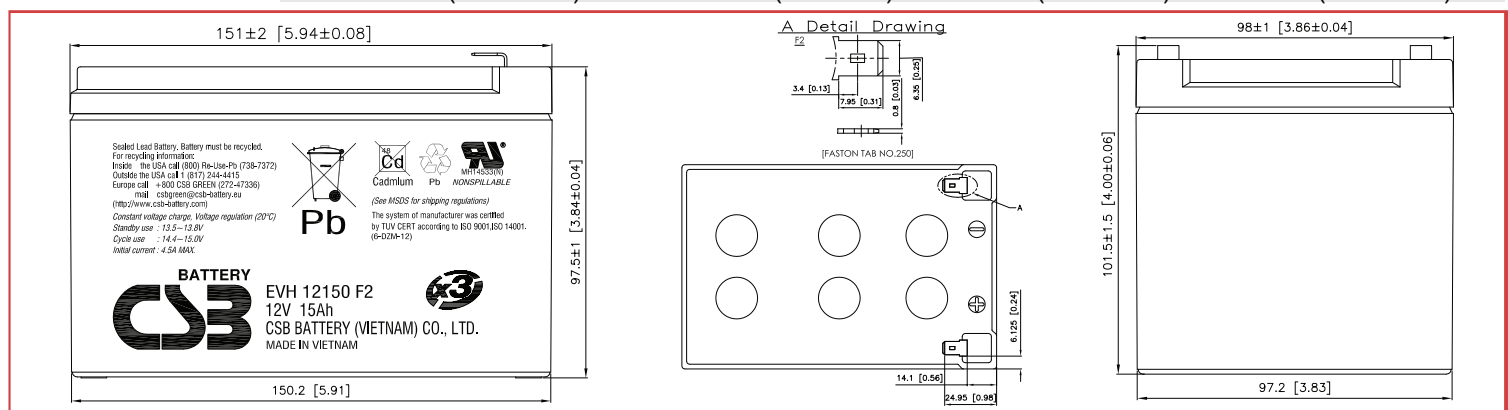
CSB-manufactured **VRLA** (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
101.8±1.5 (4.01±0.06)	97.5±1 (3.8±0.04)	151±2 (5.94±0.08)	98±1 (3.86±0.04)



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

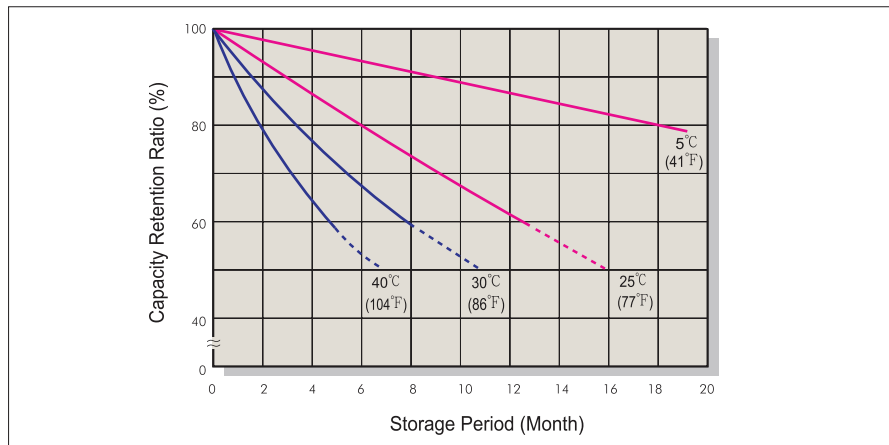
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	34.6	20.0	11.2	7.85	6.18	4.33	2.74	1.79	1.43	0.78
1.67V	34.3	19.9	11.0	7.79	6.11	4.25	2.73	1.78	1.42	0.77
1.70V	34.2	19.8	10.9	7.73	6.03	4.23	2.72	1.77	1.41	0.77
1.75V	33.3	19.5	10.8	7.66	6.00	4.17	2.71	1.76	1.39	0.76
1.80V	31.9	19.0	10.7	7.50	5.83	4.08	2.64	1.74	1.38	0.75
1.85V	30.1	18.2	10.4	7.38	5.72	3.94	2.56	1.68	1.33	0.72

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

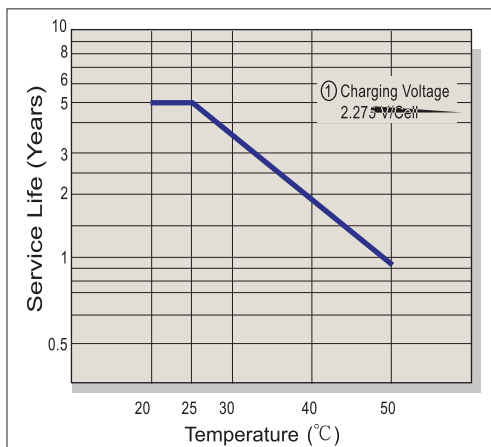
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	380	221	129	91.4	71.0	49.6	31.9	21.0	17.1	8.98
1.67V	378	220	128	90.8	70.5	49.2	31.7	20.9	17.0	8.96
1.70V	376	218	127	89.9	70.0	49.0	31.5	20.8	16.9	8.92
1.75V	368	215	125	88.7	69.4	48.8	31.1	20.7	16.8	8.82
1.80V	359	211	123	87.3	68.6	47.9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

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

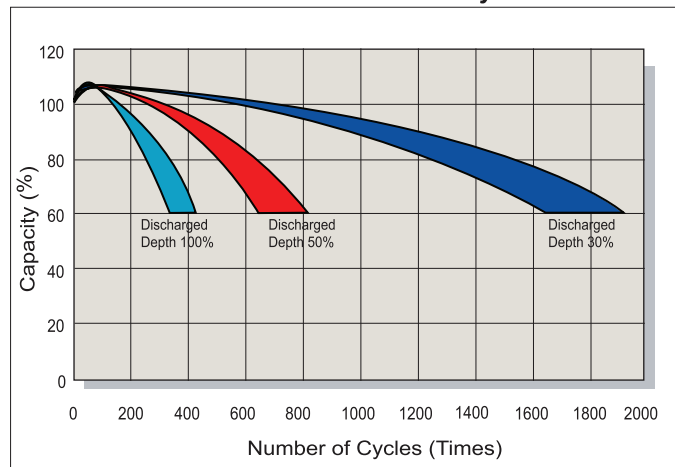
Capacity Retention Characteristic



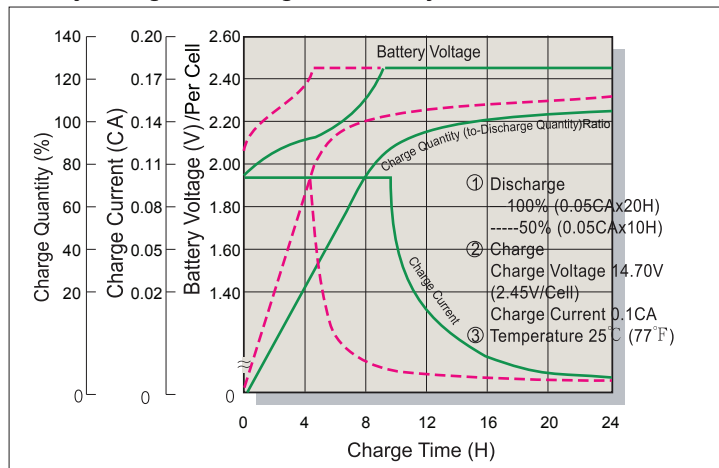
Trickle (or Float) Service Life



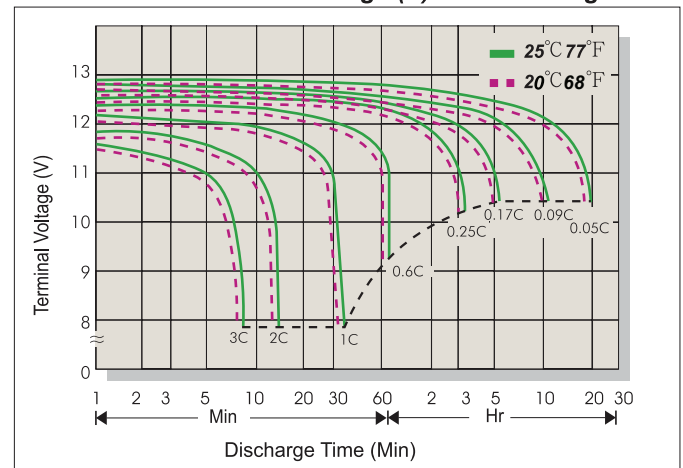
Series Cycle Service Life



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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