

Powered by



# EVX 12120 ▶ 12V 12Ah

EVX 12120 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

Cells Per Unit	6
Voltage Per Unit	12
Capacity	12Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 3.83 kg (8.44 lbs)
Maximum Discharge Current	150A/180A(5sec)
Internal Resistance	Approx. 18.5 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	3.6A
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	F1/F2-Faston Tab187/250
Container Material	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



MH14533(N)



ISO9001  
No :041005117



ISO 14001  
NO.UM 1-12-0045

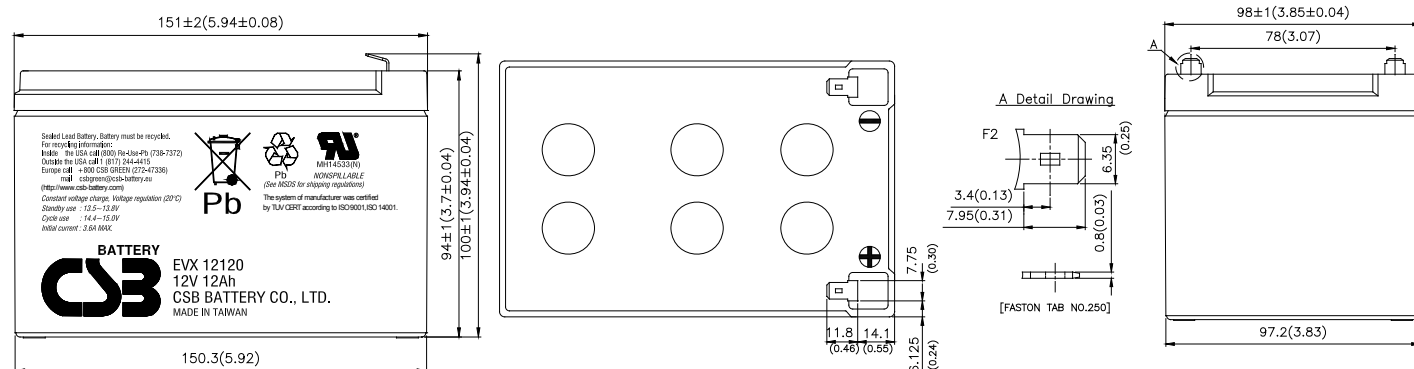
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
100±1 (3.94±0.04)	94±1(3.7±0.04)	151±2 (5.94±0.08)	98±1 (3.85±0.04)



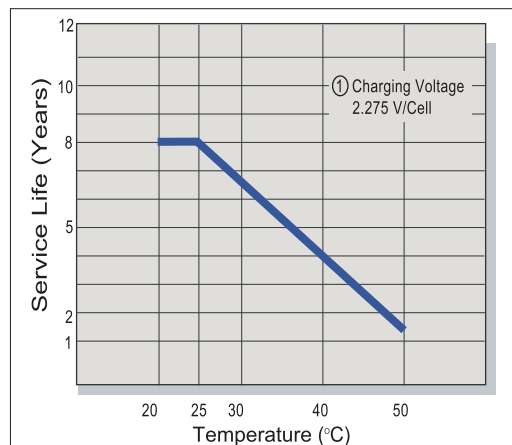
## Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	12.8	7.52	5.46	4.32	3.14	2.45	2.06	1.36	1.13	0.655
1.67V	12.7	7.45	5.45	4.29	3.10	2.44	2.05	1.35	1.12	0.633
1.70V	12.6	7.40	5.41	4.28	3.09	2.43	2.04	1.34	1.11	0.615
1.75V	12.4	7.36	5.36	4.25	3.07	2.41	2.01	1.33	1.09	0.600
1.80V	12.0	7.18	5.28	4.17	3.00	2.38	1.99	1.32	1.07	0.585
1.85V	11.3	6.89	5.08	3.99	2.90	2.30	1.92	1.27	1.04	0.570

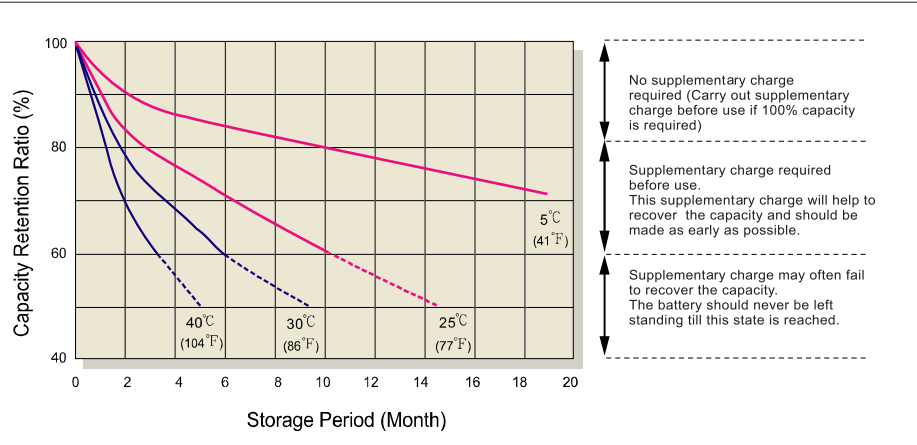
## Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	146	86.1	63.4	50.5	36.8	29.3	24.4	16.2	13.4	7.13
1.67V	146	85.7	62.9	50.1	36.6	29.1	24.3	16.1	13.3	7.09
1.70V	144	85.2	62.7	50.0	36.4	28.9	24.2	16.0	13.2	7.06
1.75V	143	84.9	62.3	49.5	36.2	28.8	23.9	15.9	13.1	7.01
1.80V	140	83.5	61.2	49.0	35.7	28.5	23.7	15.7	12.9	6.87
1.85V	132	80.0	59.4	47.4	34.5	27.7	23.0	15.2	12.5	6.66

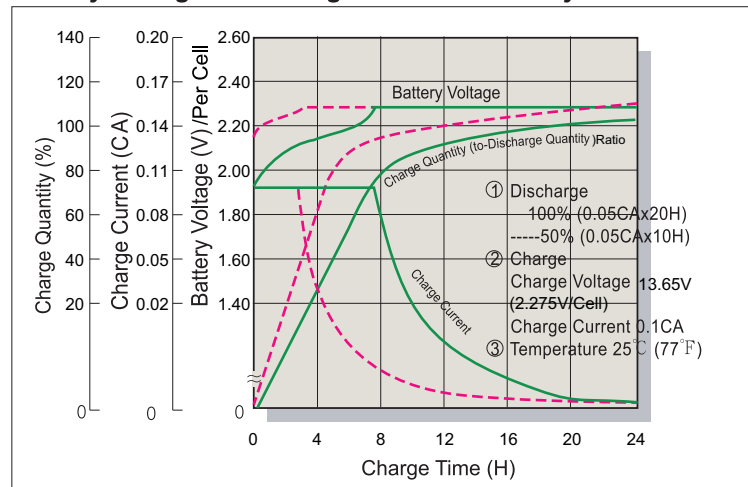
## Trickle (or Float) Service Life



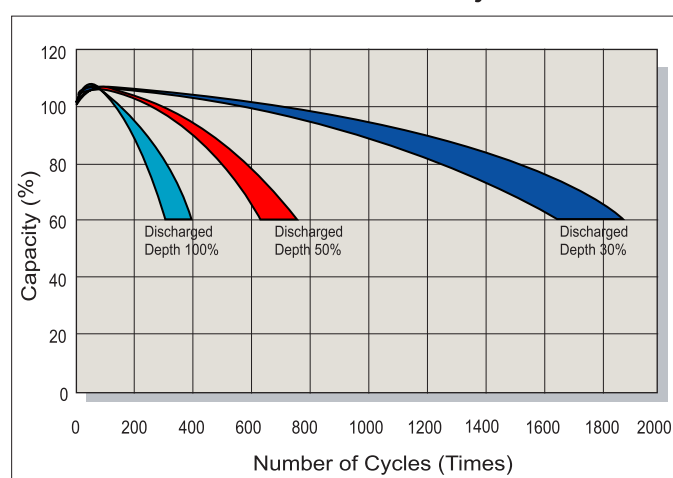
## Capacity Retention Characteristic



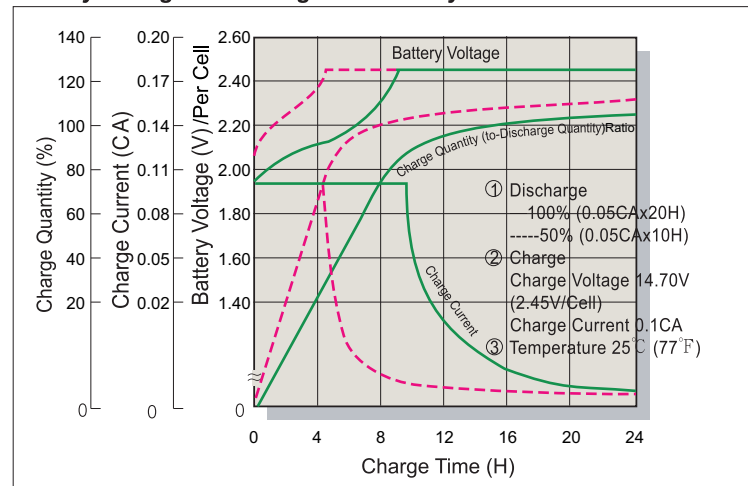
## Battery Voltage and Charge Time for Standby Use



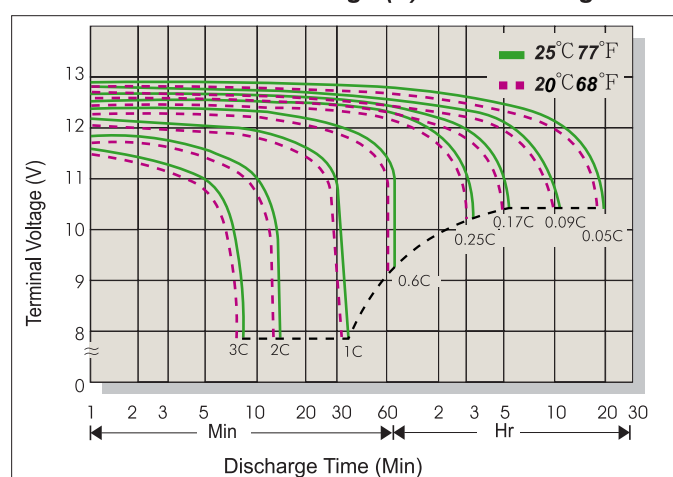
## Series Cycle Service Life



## 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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