

# EVH 12140 ▶ 12V 14Ah

EVH 12140 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>	14Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
<b>Weight</b>	Approx. 4.2 kg (9.26 lbs)
<b>Maximum Discharge Current</b>	180A(5sec)
<b>Internal Resistance</b>	Approx. 13 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>	4.2A
<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/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



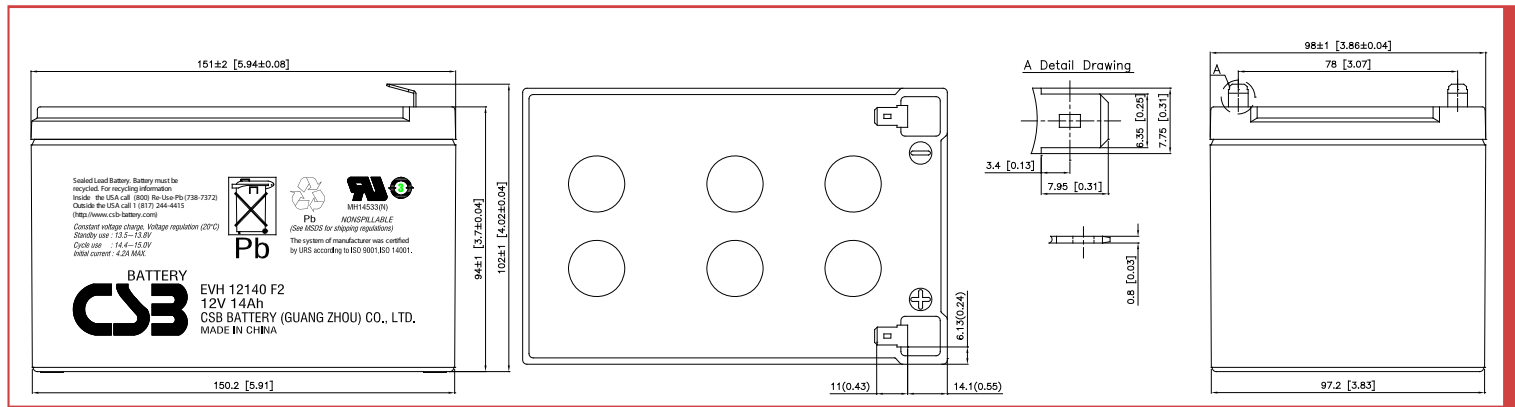
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
102±1 (4.02±0.04)	94±1 (3.7±0.04)	151±2 (5.94±0.08)	98±1 (3.86±0.04)



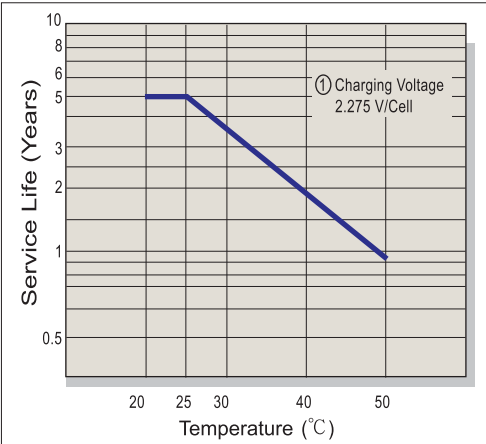
## Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	31.7	18.2	10.4	7.33	5.77	4.04	2.54	1.63	1.33	0.728
1.67V	31.1	18.1	10.3	7.27	5.70	3.97	2.50	1.61	1.32	0.719
1.70V	30.4	17.8	10.2	7.19	5.62	3.90	2.46	1.59	1.30	0.709
1.75V	29.6	17.5	10.0	7.09	5.54	3.83	2.42	1.56	1.28	0.700
1.80V	28.7	17.2	9.88	7.00	5.44	3.75	2.37	1.53	1.25	0.691
1.85V	27.7	16.8	9.73	6.89	5.34	3.68	2.32	1.50	1.23	0.663

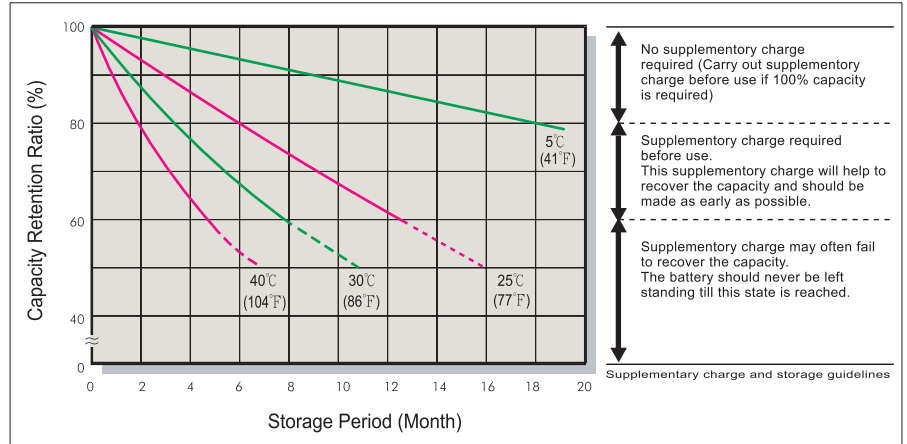
## Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	343	199	115	82.1	63.5	44.9	28.5	18.5	15.1	7.66
1.67V	336	196	112	80.3	62.6	44.2	28.0	18.2	14.9	7.61
1.70V	328	193	110	78.4	61.5	43.4	27.6	17.9	14.7	7.55
1.75V	320	189	108	76.5	60.4	42.6	27.2	17.6	14.4	7.48
1.80V	311	185	105	74.7	59.0	41.8	26.7	17.3	14.2	7.39
1.85V	301	179	104	72.8	57.7	41.0	26.1	17.0	13.9	7.30

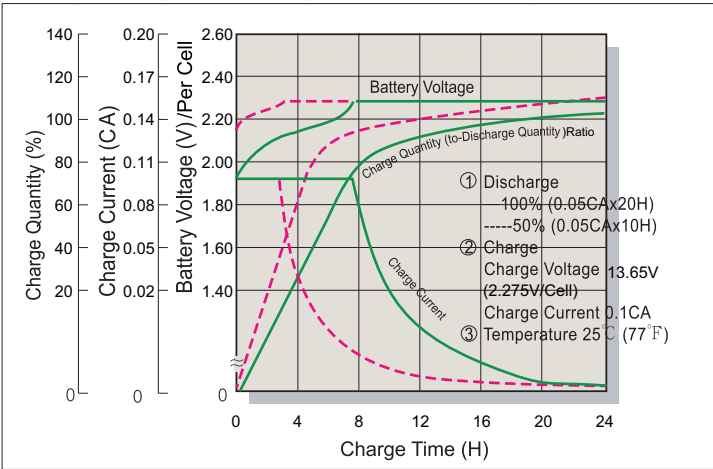
### Trickle (or Float) Service Life



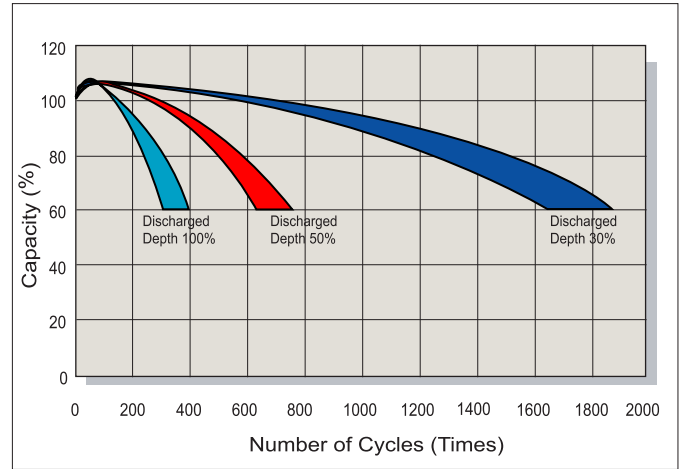
### Capacity Retention Characteristic



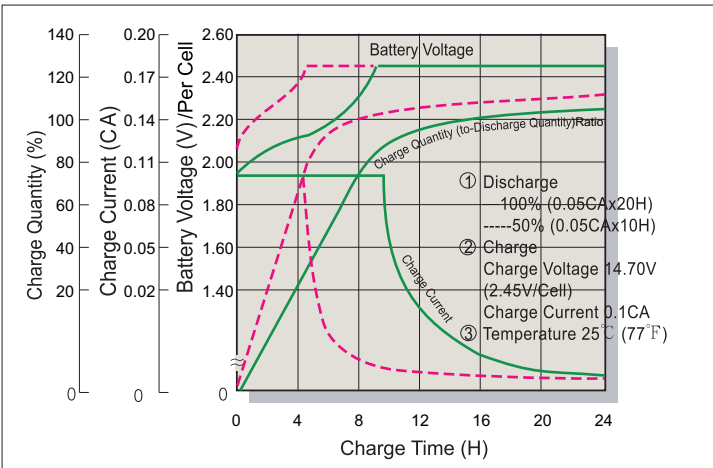
### Battery Voltage and Charge Time for Standby Use



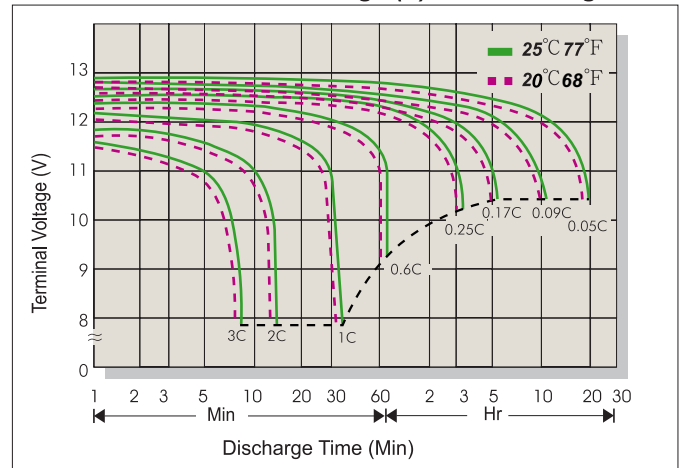
### Series Cycle Service Life



### 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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