

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

Cells Per Unit	6
Voltage Per Unit	12
Capacity	14Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 4.2 kg (9.26 lbs)
Maximum Discharge Current	180A(5sec)
Internal Resistance	Approx. 13 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	4.2A
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/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



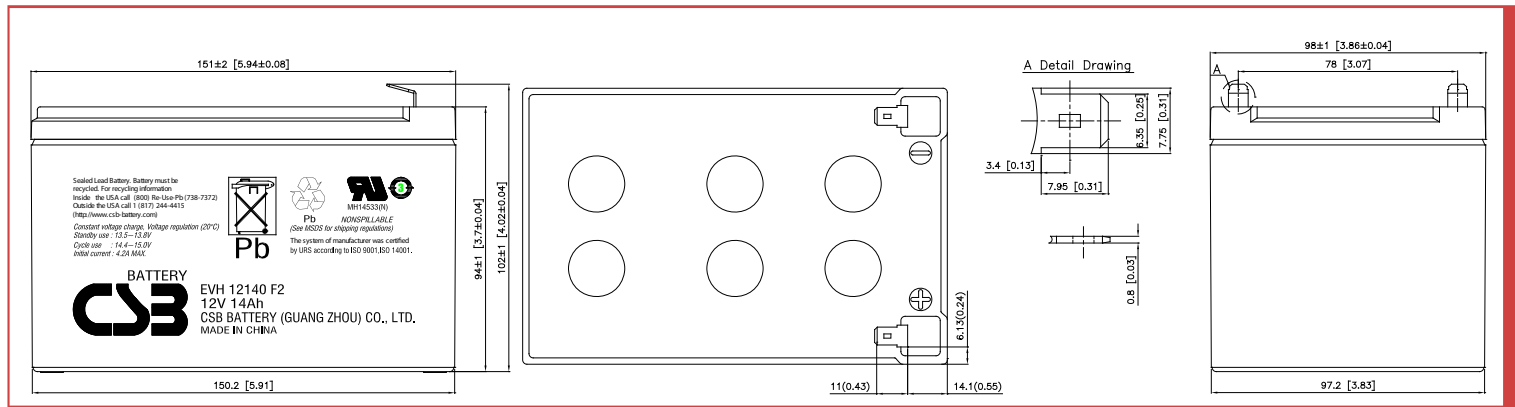
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

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)



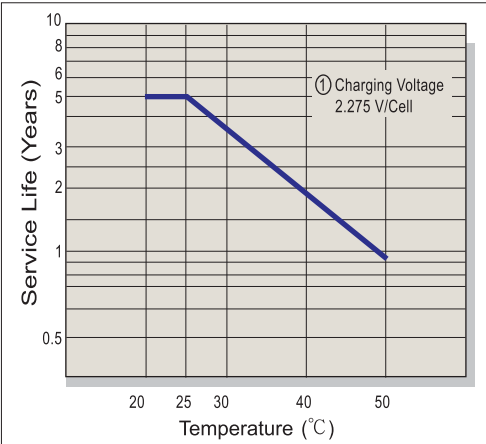
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

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

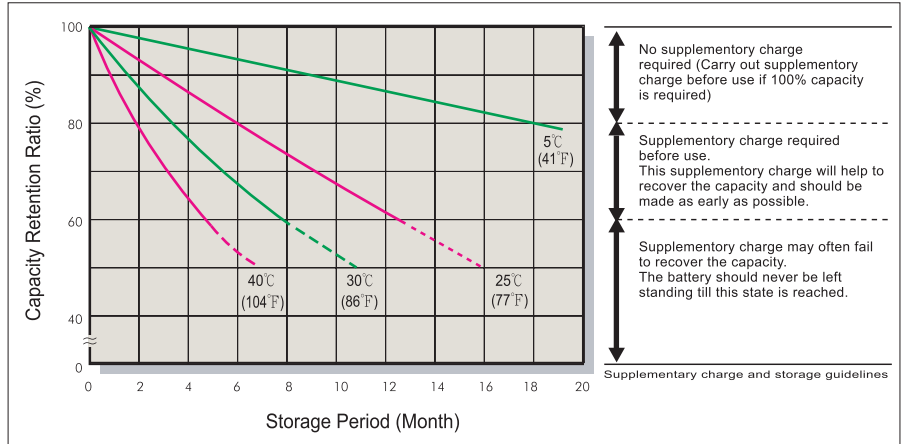
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

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

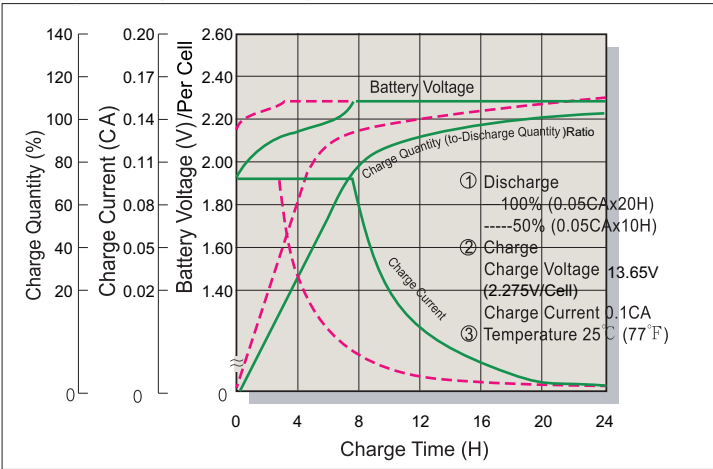
Trickle (or Float) Service Life



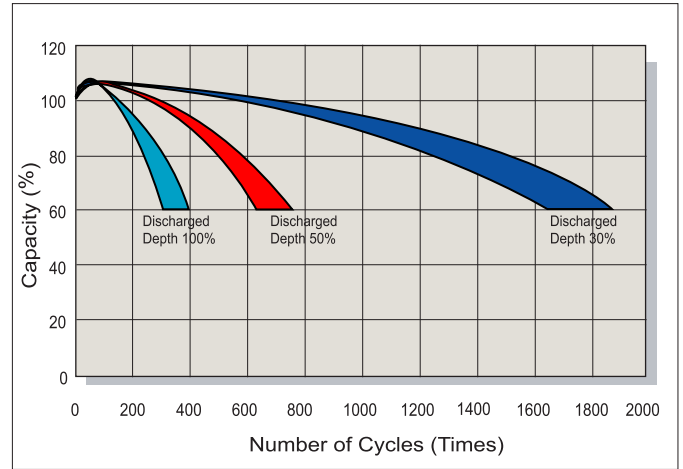
Capacity Retention Characteristic



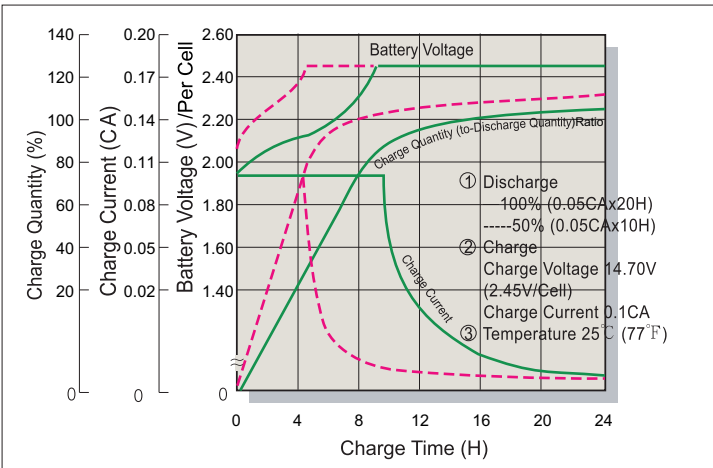
Battery Voltage and Charge Time for Standby Use



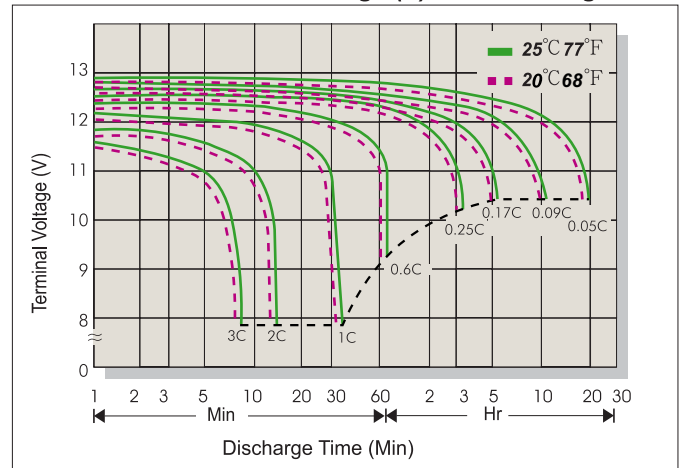
Series Cycle Service Life



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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