

EVB12150

12V 15Ah

EVH 12150 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	15Ah @ 20hr-rate to 1.75V per cell @25 °C(77°F)
Weight	Approx. 4.5 kg (9.92 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/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



MH14533(N)



ISO9001

No :041005117



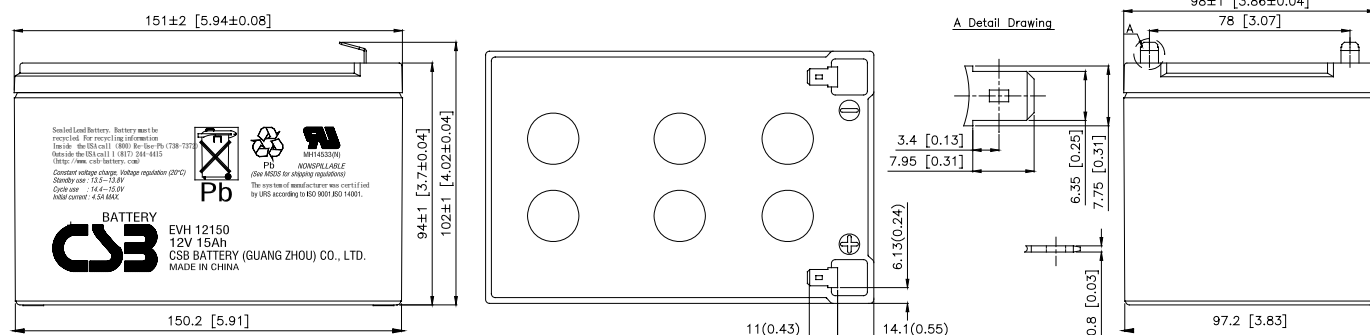
ISO 14001

NO.UM 1-12-0045

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

Dimensions

unit:(MM)



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

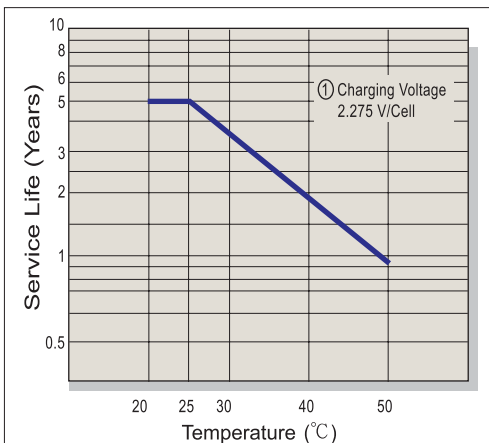
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	34.0	19.5	11.2	7.85	6.18	4.33	2.72	1.75	1.43	0.780
1.67V	33.3	19.3	11.0	7.79	6.11	4.25	2.68	1.73	1.41	0.770
1.70V	32.6	19.0	10.9	7.70	6.02	4.18	2.64	1.70	1.39	0.760
1.75V	31.7	18.7	10.7	7.60	5.93	4.10	2.59	1.67	1.37	0.750
1.80V	30.8	18.5	10.6	7.50	5.83	4.02	2.54	1.64	1.34	0.740
1.85V	29.7	18.1	10.4	7.38	5.72	3.94	2.49	1.61	1.32	0.710

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

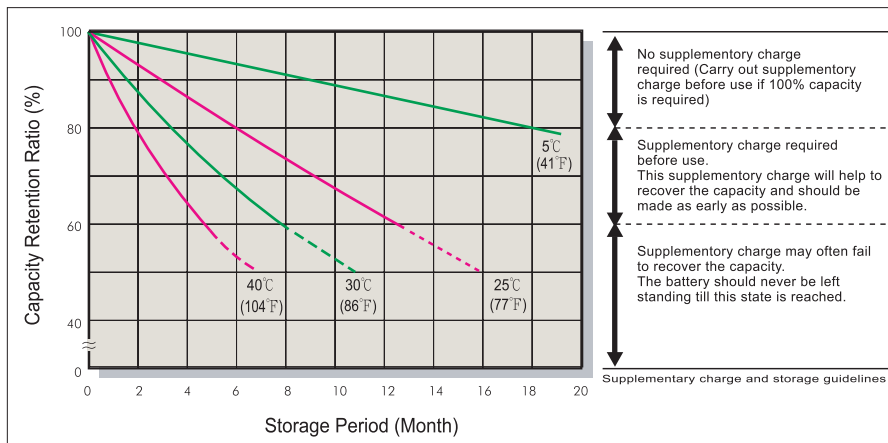
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	367	213	123	88.0	68.0	48.1	30.5	19.8	16.2	8.21
1.67V	360	210	120	86.0	67.1	47.3	30.0	19.5	16.0	8.15
1.70V	351	207	118	84.0	65.9	46.5	29.6	19.2	15.7	8.09
1.75V	343	203	115	82.0	64.7	45.6	29.1	18.9	15.5	8.01
1.80V	333	199	113	80.0	63.2	44.8	28.6	18.6	15.2	7.92
1.85V	323	192	111	78.0	61.8	43.9	28.0	18.2	14.9	7.82

- All mentioned values are average values.
- Tolerance: $X < 6\text{min} (+15\% \sim -15\%)$, $6\text{min} \leq X < 10\text{min} (+12\% \sim -12\%)$, $10\text{min} \leq X < 60\text{min} (+8\% \sim -8\%)$, $X \geq 60\text{min} (+5\% \sim -5\%)$

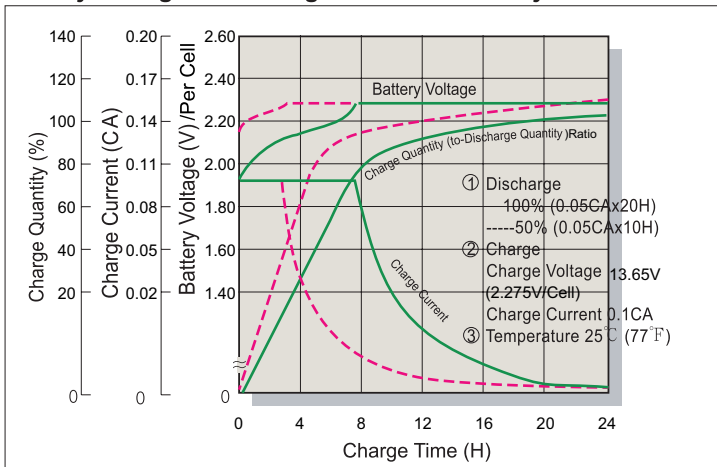
Trickle (or Float) Service Life



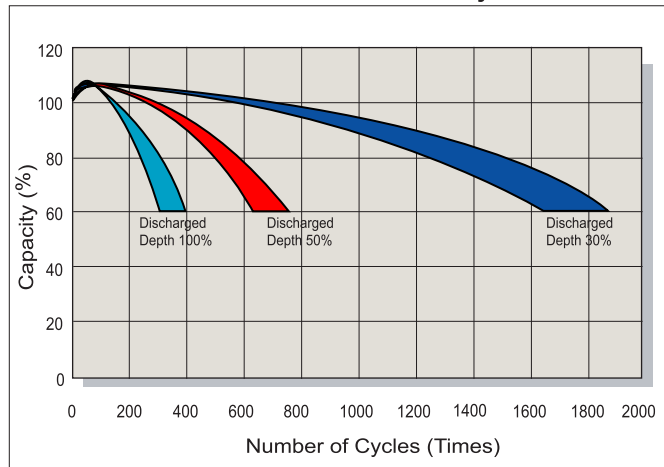
Capacity Retention Characteristic



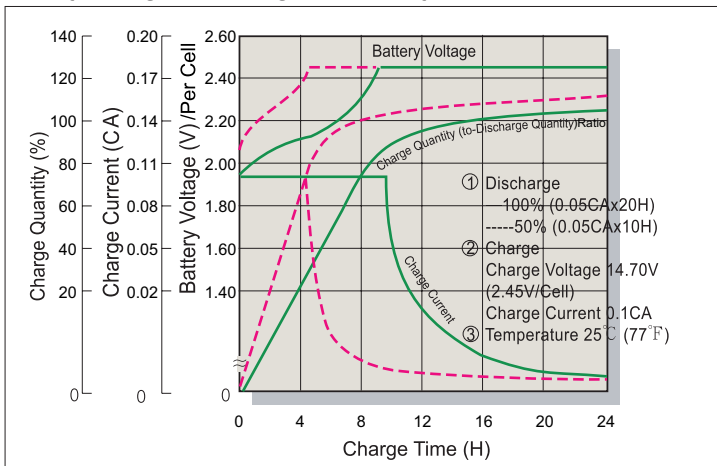
Battery Voltage and Charge Time for Standby Use



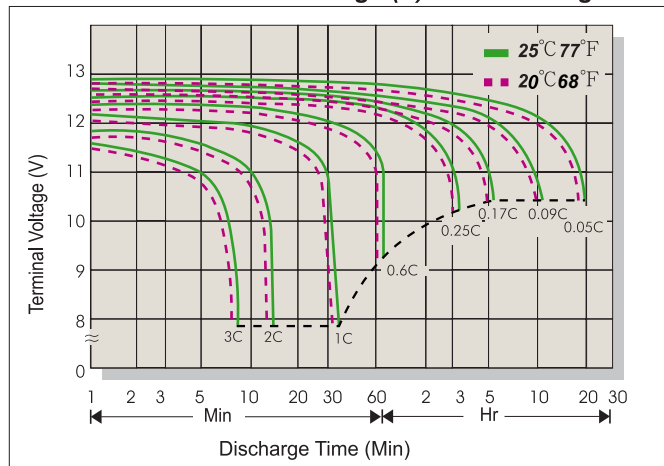
Series Cycle Service Life



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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