



EVX 12140

12V 14.0Ah

EVX 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.4.5kg(9.90 lbs)
Maximum Discharge Current	180A(5sec)
Internal Resistance	Approx. 11mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15~40°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	1.5A
Current Limit	
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	Detailed component refer to attach drawing.(Faston Tab 250)
Container Material	They are made from high quality ABS plastics (UL 94 HB/File E50263) and are well insulated.

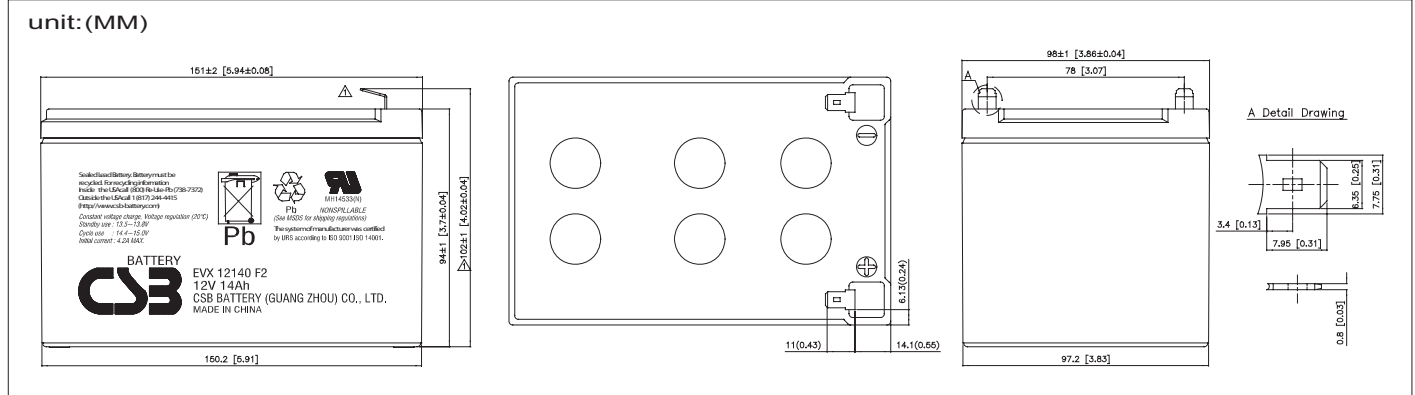
MH14533(N)

TÜV CERT
ISO9001
No.:041005117

RWTV
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



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

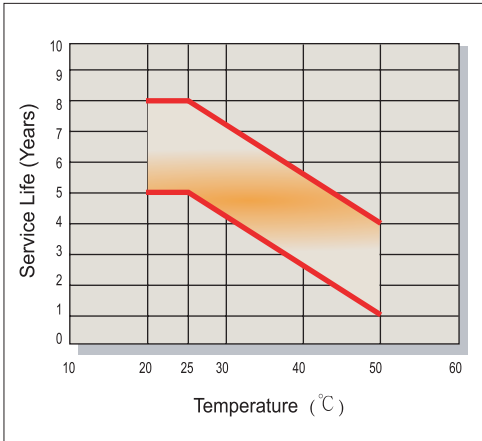
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	34.01	19.50	11.17	7.85	6.14	4.33	2.72	1.75	1.43	0.74
1.67V	33.68	19.34	11.04	7.79	6.08	4.27	2.68	1.73	1.41	0.73
1.70V	33.31	19.25	10.95	7.73	6.03	4.22	2.66	1.71	1.39	0.72
1.75V	32.91	19.13	10.76	7.70	5.97	4.18	2.64	1.69	1.38	0.71
1.80V	31.60	18.73	10.67	7.61	5.87	4.08	2.58	1.67	1.36	0.70
1.85V	29.71	18.05	10.43	7.38	5.68	3.94	2.49	1.61	1.32	0.67

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

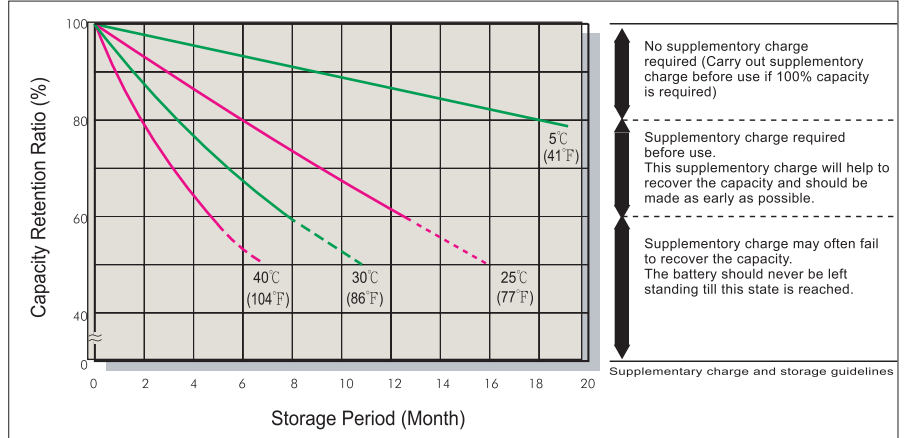
F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	367.00	213.00	123.00	88.00	68.00	48.10	30.50	19.80	16.20	8.21
1.67V	364.00	210.00	120.00	86.00	67.50	47.70	30.20	19.50	16.00	8.17
1.70V	361.00	207.00	118.00	84.00	67.10	47.30	30.00	19.30	15.80	8.14
1.75V	347.00	204.00	115.00	82.00	64.70	46.30	29.70	19.00	15.60	8.10
1.80V	342.00	201.00	113.00	80.00	63.80	45.50	29.00	18.80	15.40	8.05
1.85V	323.00	192.00	111.00	78.00	61.80	43.90	28.00	18.20	14.90	7.82

• All mentioned values are average values.

Trickle (or Float) Service Life



Capacity Retention Characteristic



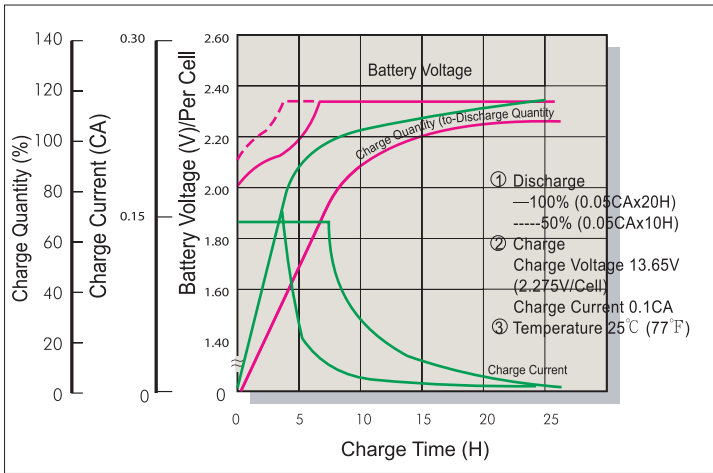
No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

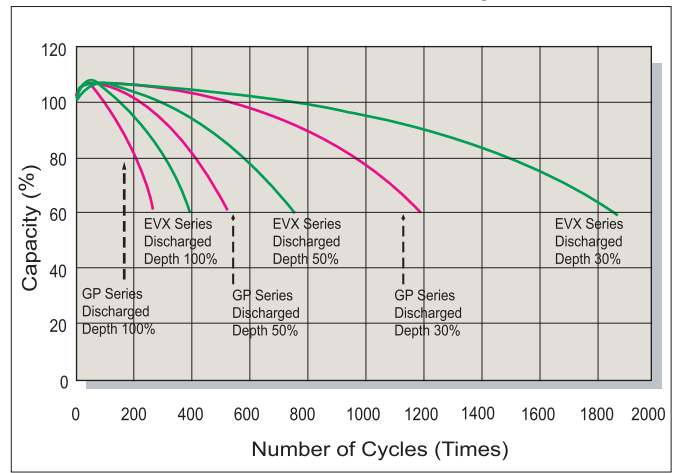
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached.

Supplementary charge and storage guidelines

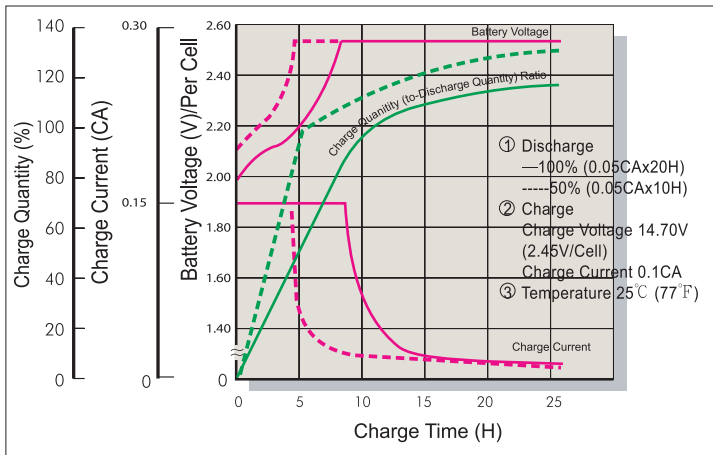
Battery Voltage and Charge Time for Standby Use



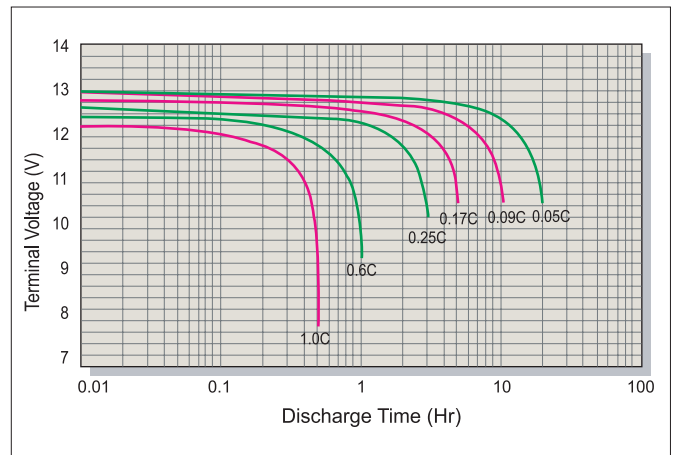
GP & EVX Series Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time (25°C 77°F)



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	1.55	1.30
Discharge Current (A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Sales Office URL: WWW.CSB-BATTERY.COM

CSB BATTERY CO., LTD.
TAIWAN OFFICE
 Tel: +886-2-8751-5000
 Fax: +886-2-8751-6161
 E-mail: service@csb-battery.com.tw

CSB BATTERY LOGISTICS (SHANGHAI) CO., LTD.
SHANGHAI OFFICE
 Tel: +86-21-5046-1622, 5046-0833
 Fax: +86-21-5064-3314

CSB BATTERY TECHNOLOGIES, INC
USA OFFICE
 Tel: +1-817-244-7777/1-8003 CSBUSA(272872)
 Fax: +1-817-244-4445
 E-mail: csb@csb-battery.com

CSB BATTERY LOGISTICS (SHANGHAI) CO., LTD.
BEIJING OFFICE
 Tel: +86-10-6597-8060, 6597-8070
 Fax: +86-10-6597-8050
 E-mail: chinasl@csb-battery.com

CSB BATTERY OF NETHERLANDS B.V
NETHERLANDS OFFICE
 Tel: +31(0) 180 418 140
 Fax: +31(0) 180 418 327
 E-mail: eurosales@csb-battery.com

CSB BATTERY LOGISTICS (SHANGHAI) CO., LTD.
SHENZHEN OFFICE
 Tel: +86-755-88316356 88316488 88316396
 Fax: +86-755-88316548
 E-mail: she@csb-battery.com.tw