

EVX 121000

12V 100.0Ah

EVX 121000 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.



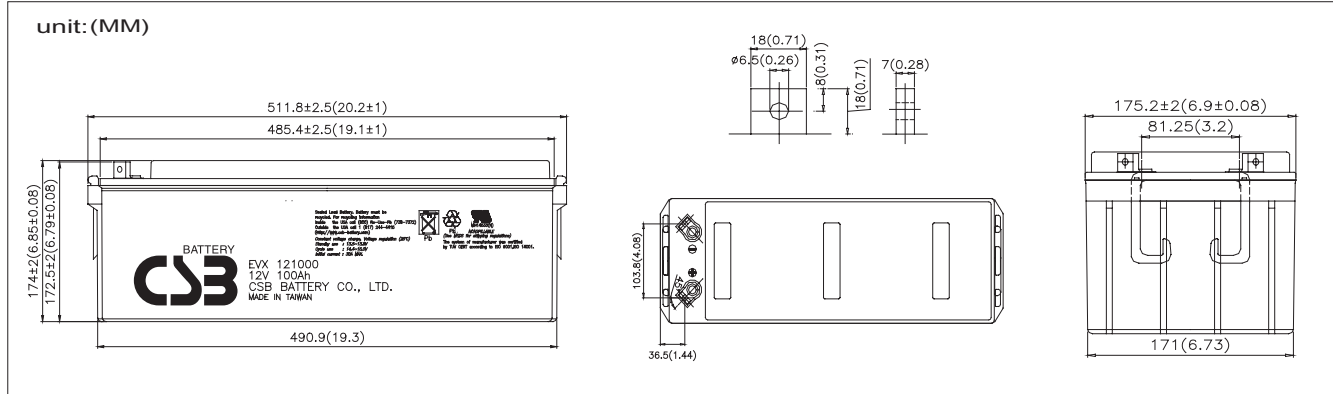
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 35.5kg(78.28 lbs)
Maximum Discharge Current	500A(5sec)
Internal Resistance	Approx. 7mΩ
Operating Temperature Range	Discharge: -20°C~50°C(-4°F~122°F) Charge: 0°C~40°C(32°F~104°F) Storage: -20°C~40°C(-4°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	30.0A
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	Bolt & Nut
Container Material	Polypropylene



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)

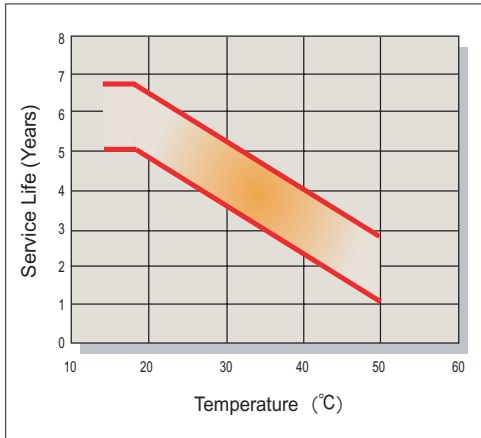
F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	75.7	52.3	38.9	32.8	22.4	19.0	16.9	11.4	9.67	5.45
1.67V	73.4	50.4	37.4	31.5	21.5	18.2	16.2	11.0	9.32	5.23
1.70V	72.4	49.7	36.8	30.9	21.2	17.9	15.9	10.8	9.17	5.13
1.75V	70.4	48.2	35.9	30.1	20.5	17.3	15.5	10.4	8.88	4.97
1.80V	68.3	46.8	34.9	29.3	19.9	16.8	15.0	10.1	8.58	4.81
1.85V	66.3	45.3	34.0	28.5	19.3	16.2	14.5	9.75	8.29	4.65

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

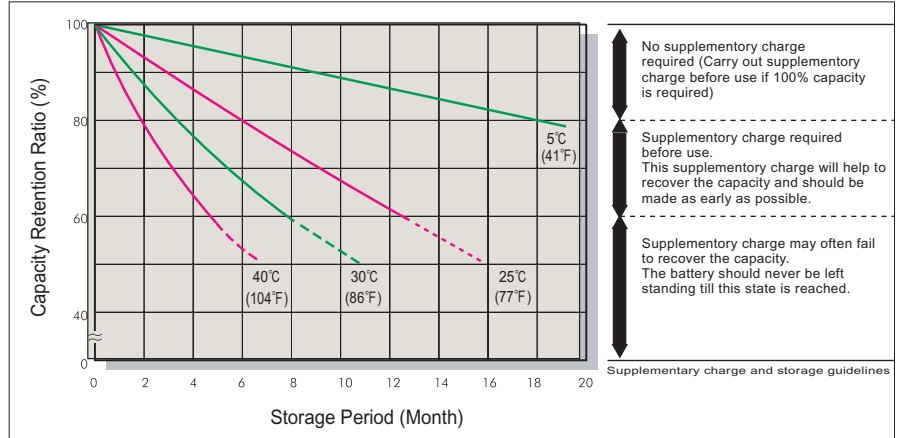
F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	908	627	467	393	269	228	203	137	116	65.4
1.67V	881	605	450	378	259	219	195	131	112	62.7
1.70V	869	596	442	371	254	215	191	129	110	61.5
1.75V	845	579	431	362	247	208	186	125	107	59.6
1.80V	820	561	419	352	239	201	180	121	103	57.7
1.85V	796	544	408	343	232	194	175	117	99.5	55.8

● All mentioned values are average values.

Trickle (or Float) Service Life



Capacity Retention Characteristic

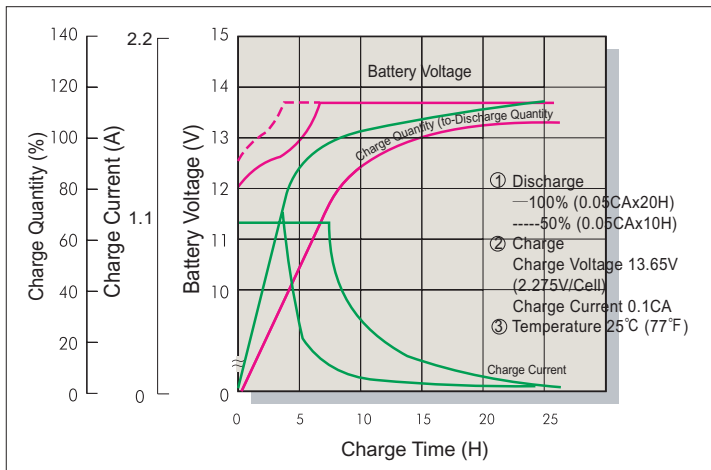


No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

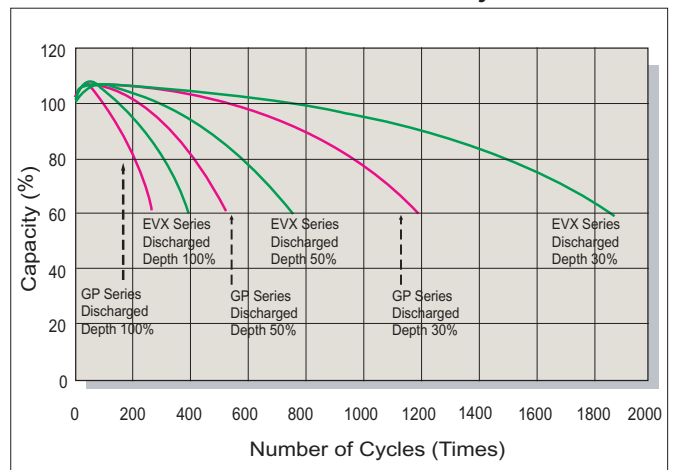
Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

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

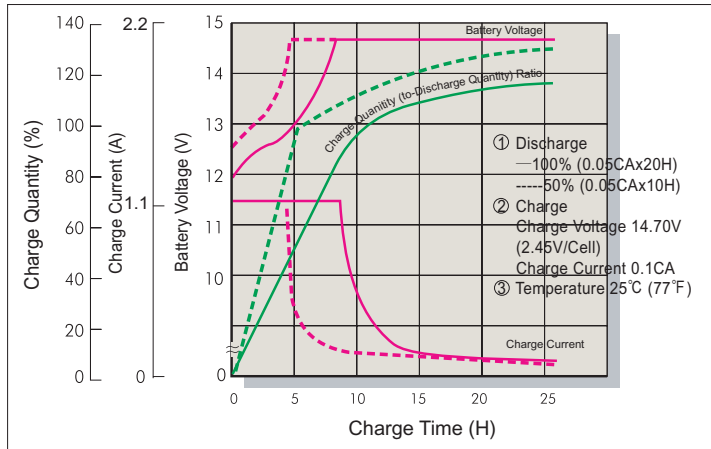
Battery Voltage and Charge Time for Standby Use



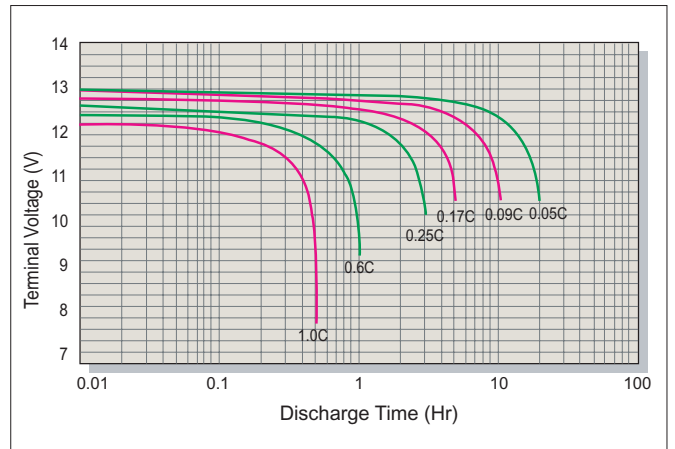
GP & EVX Series Cycle Service Life



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