Powered by

BATTERY ®

EVX 121000 ▶ 12V 100Ah



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℃(77℉)
Weight	Approx. 35.5 kg (78.26 lbs)
Maximum Discharge Current	500A(5sec)
Internal Resistance	Approx. 8 mΩ
Operating Temperature Range	Discharge: -15℃~50℃(5℉~122℉) Charge: -15 ℃~40℃(5℉~104℉) Storage: -15℃~40℃(5℉~104℉)
Nominal Operating Temperature Range	25℃±3℃(77℉±5℉)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25℃(77℉)
Recommended Maximum Charging Current Limit	30 A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25℃(77℉)
Self Discharge	CSB Batteries can be stored for more than 6 months at 25℃(77℉). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	B4-L terminal to accept M6 nut & bolt
Container Material	Polypropylene(UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.

MH14533(N)

TÜV CERT ISO9001 No :041005117

RWTUV ISO 14001 NO.UM 1-12-0045

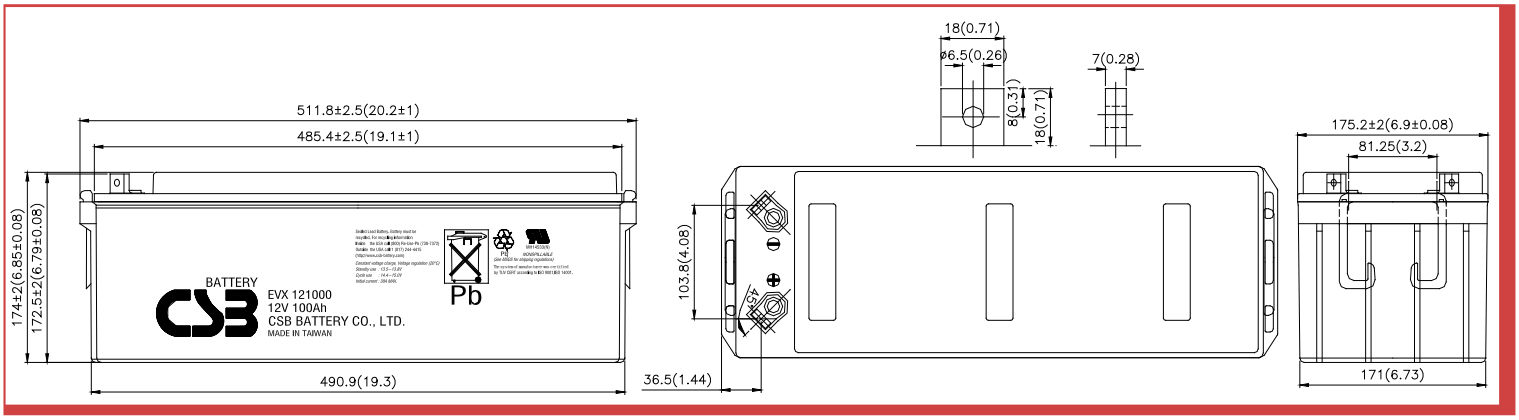
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

▶ Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
174±2 (6.85±0.08)	172.5±2 (6.79±0.08)	511.8±2.5 (20.2±1)	175.2±2 (6.9±0.08)



Constant Current Discharge Characteristics Unit:A (25℃,77℉)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	108	63.5	46.1	36.7	26.2	20.6	17.1	11.7	9.71	5.21
1.67V	107	63.2	45.8	36.5	26.0	20.4	16.9	11.6	9.67	5.16
1.70V	106	62.7	45.6	36.4	25.9	20.3	16.8	11.5	9.60	5.13
1.75V	105	62.1	45.2	36.0	25.6	20.1	16.7	11.4	9.47	5.10
1.80V	101	60.6	44.4	35.4	25.2	19.8	16.5	11.2	9.30	4.97
1.85V	94.3	57.6	42.4	33.9	24.2	19.0	15.7	10.7	8.90	4.79

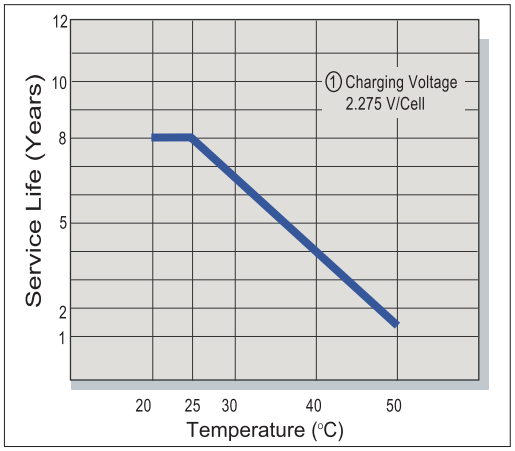
Constant Power Discharge Characteristics Unit:W (25℃,77℉)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1,240	744	543	429	306	243	202	139	115	62.0
1.67V	1,238	741	541	425	305	241	200	138	114	61.9
1.70V	1,223	734	538	424	303	240	199	137	113	61.6
1.75V	1,207	730	533	423	302	238	197	136	112	61.0
1.80V	1,168	719	526	415	297	232	195	134	111	59.9
1.85V	1,098	686	506	399	286	225	187	128	106	58.1

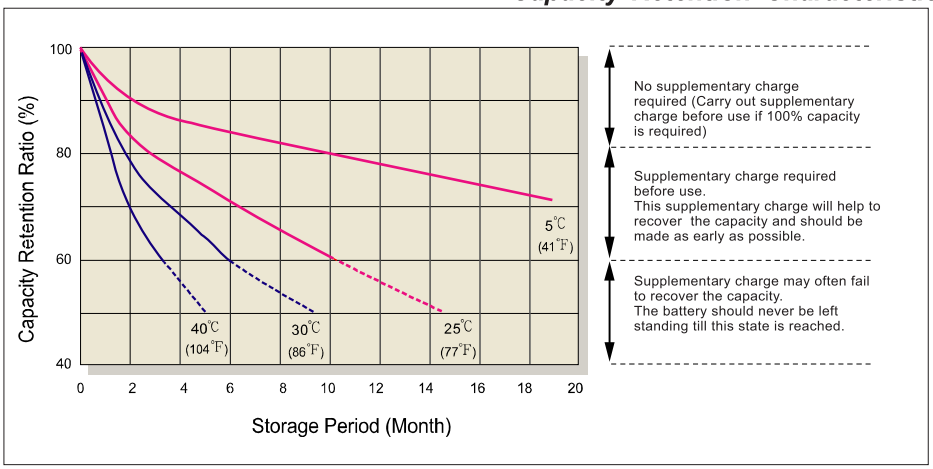
EVX121000

12V 100Ah

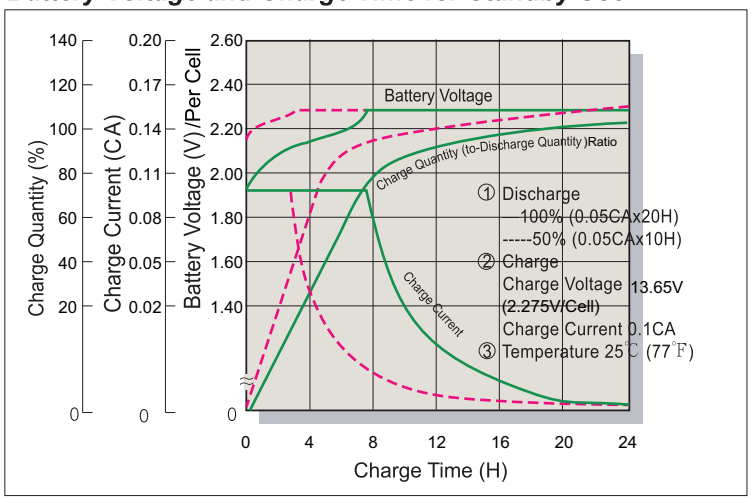
Trickle (or Float) Service Life



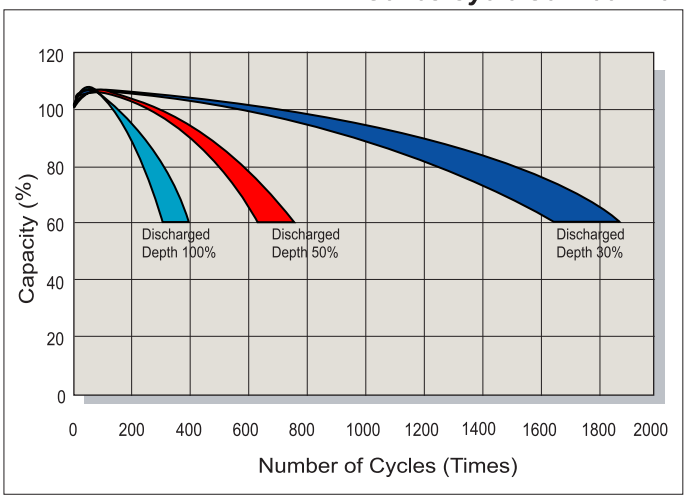
Capacity Retention Characteristic



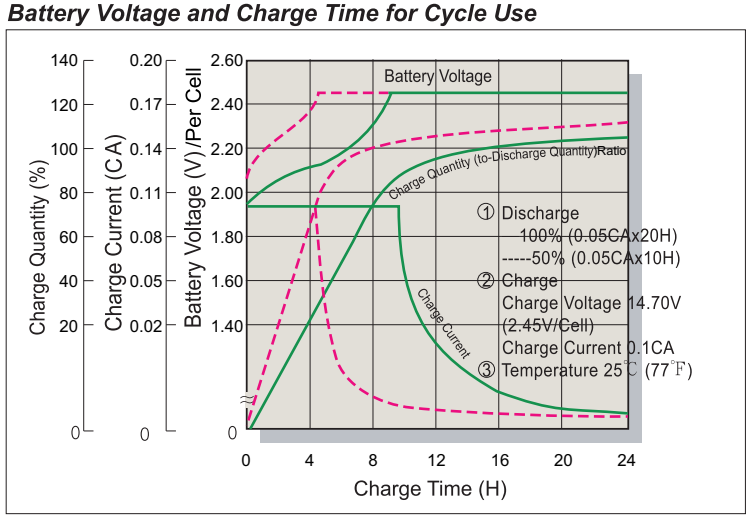
Battery Voltage and Charge Time for Standby Use



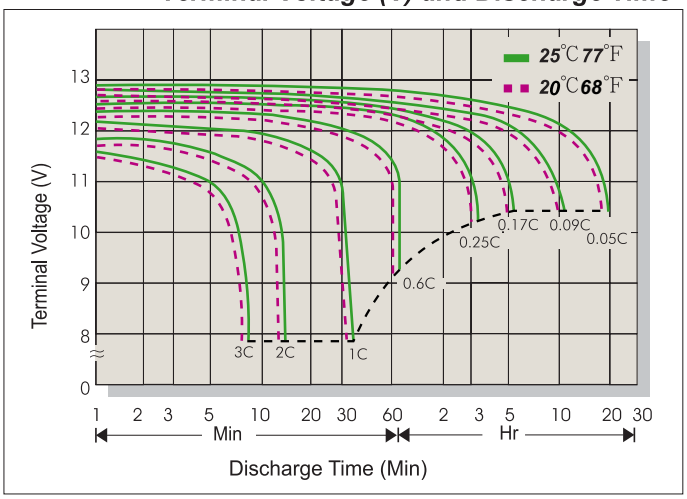
Series Cycle Service Life



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℃(77℉)	2.45	2.40~2.50	0.3C
Standby	25℃(77℉)	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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