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# XTV 121000 ▶ 12V 100AH

XTV 121000 is a general battery up to 12 years expected life in standby service or more than 260 cycles at 100% discharge in cycle service. XTV has a wider operating temperature range, which makes them more suitable for the systems in harsh conditions.



## ► Specification

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	100AH @ 20hr-rate to 1.75V per cell @ 25°C(77°F)
<b>Weight</b>	Approx. 30.2 kg(66.6 lbs)
<b>Maximum Discharge Current</b>	800A(5sec)
<b>Internal Resistance</b>	Approx. 3.9mΩ
<b>Operating Temperature Range</b>	Discharge: -20°C~50°C (-4°F~122°F) Charge: -20°C~50°C (-4°F~122°F) Storage: -15°C~40°C ( 5°F~104°F)
<b>Nominal Operating Temperature Range</b>	25°C±3°C (77°F±5°F)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
<b>Recommended Maximum Charging Current Limit</b>	30 A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
<b>Self Discharge</b>	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.
<b>Terminal</b>	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
<b>Container Material</b>	Polypropylene(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



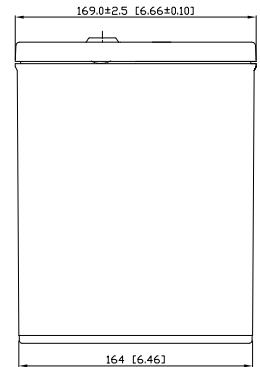
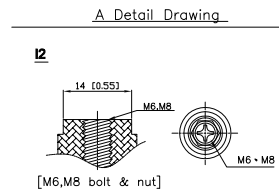
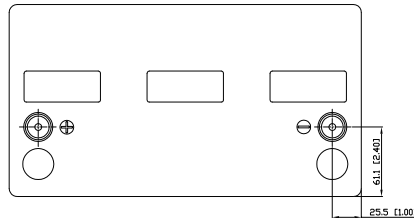
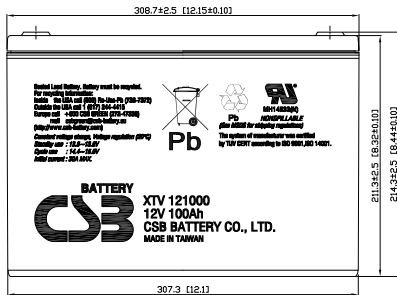
CSB-manufactured **VRLA** (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
214.3±2.5 (8.44±0.10)	211.3±2.5 (8.32±0.10)	308.7±2.5 (12.15±0.10)	169.0±2.0 (6.65±0.08)



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

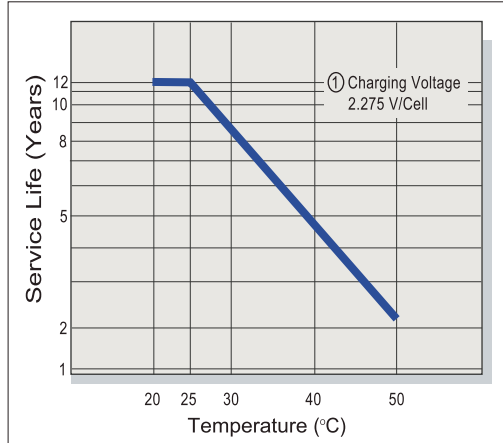
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	371	259	194	116	67.8	48.9	38.7	27.7	17.7	11.6	9.54	5.05
1.67V	328	242	188	114	67.2	48.7	38.4	27.4	17.5	11.5	9.47	5.02
1.70V	309	231	184	113	66.7	48.3	38.0	27.3	17.4	11.4	9.45	5.01
1.75V	282	212	173	110	65.5	47.7	37.6	26.9	17.3	11.3	9.38	5.00
1.80V	243	193	157	104	63.0	46.3	36.5	26.1	16.8	11.2	9.16	4.84
1.85V	191	170	138	96.9	59.1	43.8	34.6	25.2	16.1	10.7	8.82	4.63

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

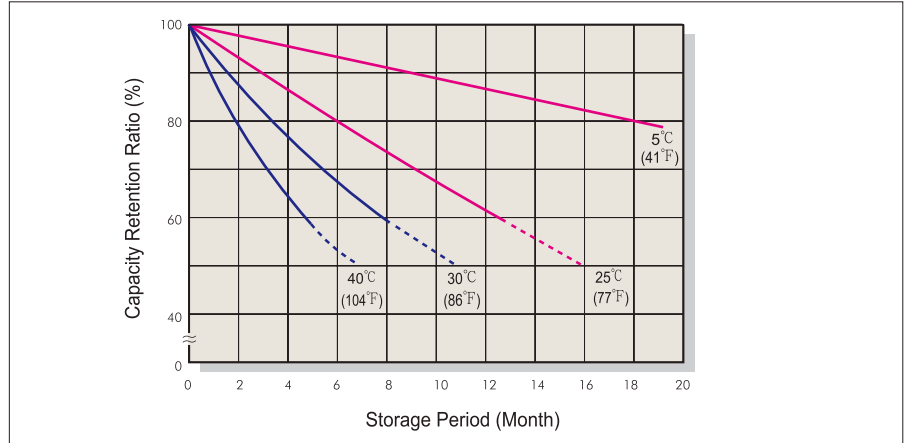
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	3591	2638	2095	1307	778	569	450	323	211	138	114	59.9
1.67V	3382	2513	2029	1286	775	567	447	321	210	137	113	59.6
1.70V	3268	2445	1987	1274	771	564	445	319	209	136	112	59.3
1.75V	2932	2308	1880	1245	761	557	440	316	207	135	111	59.0
1.80V	2572	2149	1727	1192	735	545	429	308	203	133	110	58.1
1.85V	2255	1872	1546	1125	695	519	412	297	194	129	105	55.9

Ratings presented herein are subject to revision without notice. Please refer to [www.csb-battery.com](http://www.csb-battery.com) to confirm the latest version.

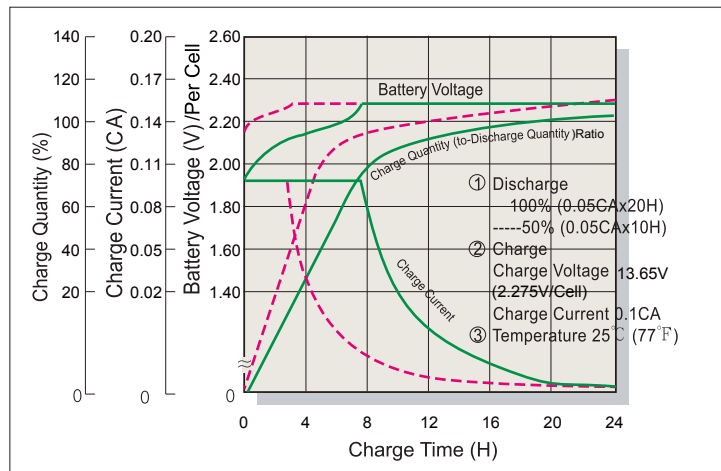
### Trickle (or Float) Service Life



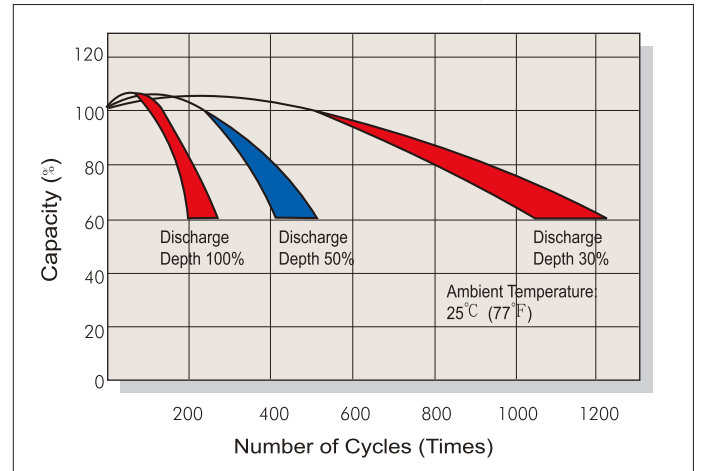
### Capacity Retention Characteristic



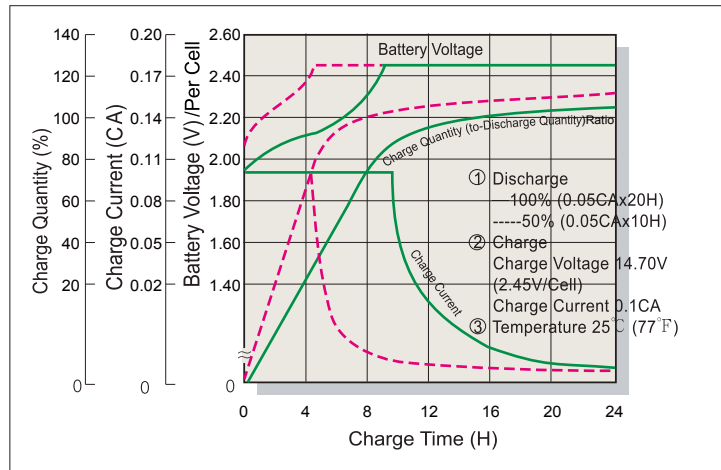
### Battery Voltage and Charge Time for Standby Use



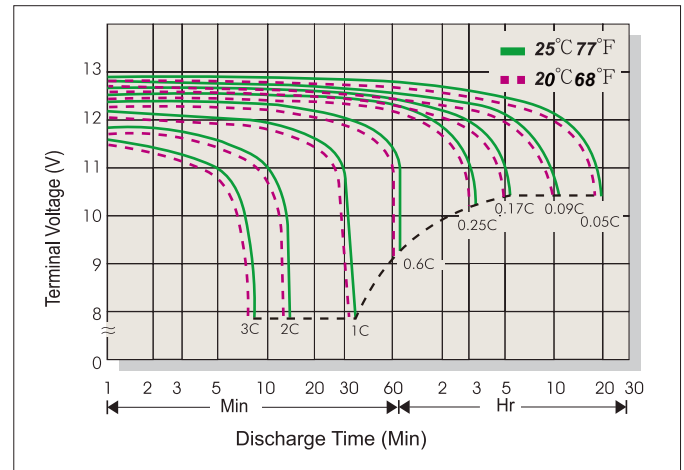
### Series Cycle Service Life



### 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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