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# XTV 12800

▶ 12V 80AH

XTV 12800 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

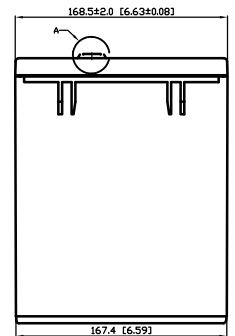
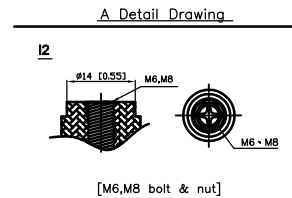
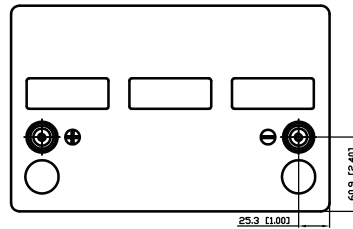
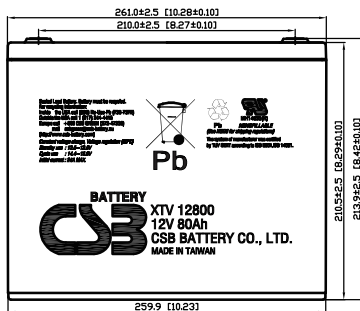
<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	80AH @ 20hr-rate to 1.75V per cell @ 25°C(77°F)
<b>Weight</b>	Approx. 25.5kg(56.2 lbs)
<b>Maximum Discharge Current</b>	800A(5sec)
<b>Internal Resistance</b>	Approx. 4.5mΩ
<b>Operating Temperature Range</b>	Discharge: -20°C~50°C (-4°F~122°F) 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>	24 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 :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
	Unit: mm (inch)	213.9±2.5 (8.42±0.10)	210.5±2.5 (8.29±0.10)	261.0±2.5 (10.83±0.10)



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

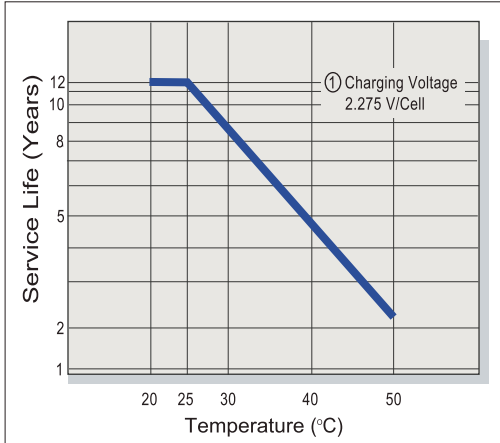
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	303	204	155	92.7	54.7	40.1	31.6	22.1	14.3	9.49	7.82	4.13
1.67V	269	192	151	91.4	54.2	39.8	31.3	22.0	14.2	9.42	7.75	4.11
1.70V	255	185	148	90.8	53.8	39.5	31.1	21.9	14.1	9.38	7.73	4.08
1.75V	229	172	142	88.1	53.0	38.9	30.6	21.6	13.9	9.27	7.65	4.00
1.80V	202	157	128	83.5	51.3	38.0	29.9	21.2	13.6	9.12	7.53	3.96
1.85V	151	138	112	77.7	48.3	36.2	28.5	20.1	13.0	8.72	7.23	3.81

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

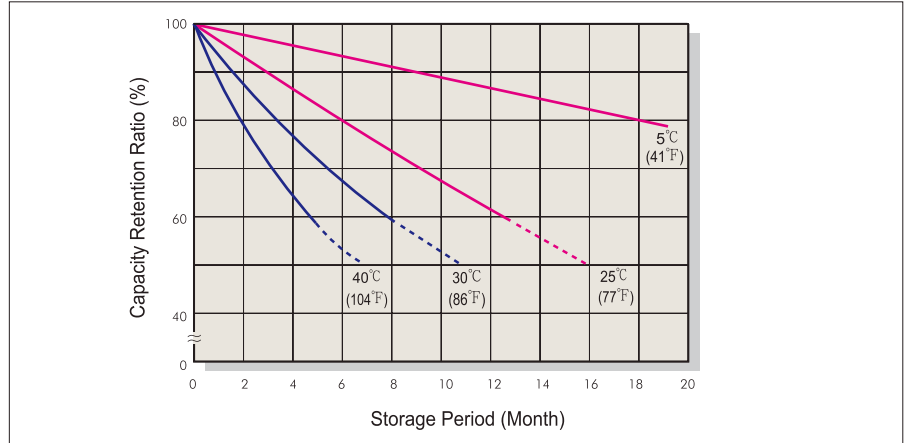
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	2925	2114	1660	1033	627	464	367	262	170	112	92.7	49.3
1.67V	2742	2023	1618	1026	625	462	366	260	169	111	92.6	49.2
1.70V	2649	1977	1596	1014	621	459	363	258	168	110	92.5	49.0
1.75V	2438	1867	1517	996	614	454	361	256	167	109	91.8	48.5
1.80V	2143	1746	1397	951	594	444	352	251	165	108	89.8	47.8
1.85V	1775	1507	1242	898	560	424	335	242	158	106	86.9	45.9

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.

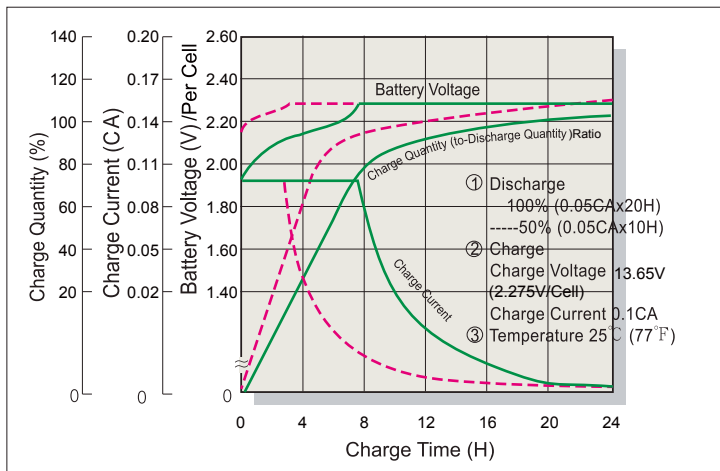
### Trickle (or Float) Service Life



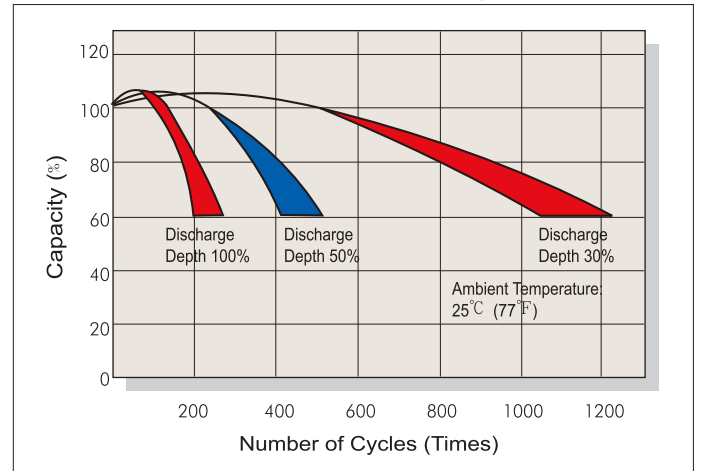
### Capacity Retention Characteristic



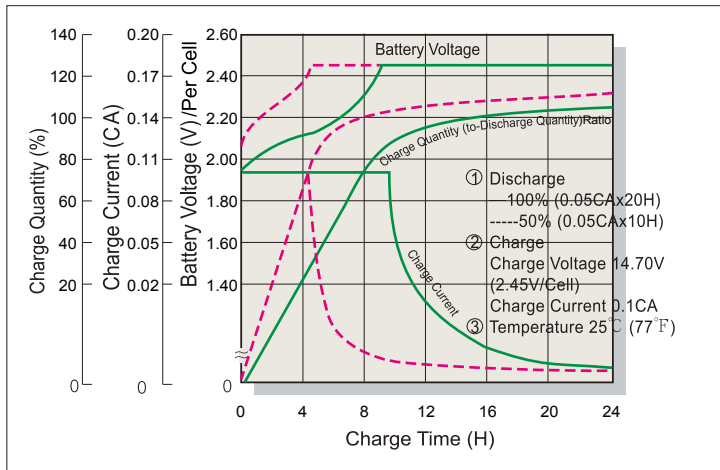
### Battery Voltage and Charge Time for Standby Use



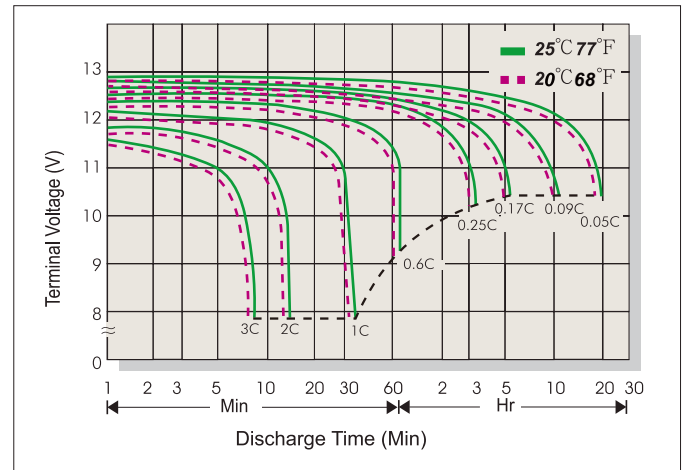
### Series Cycle Service Life



### 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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