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# XTV12950 ▶ 12V 95Ah

XTV 12950 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

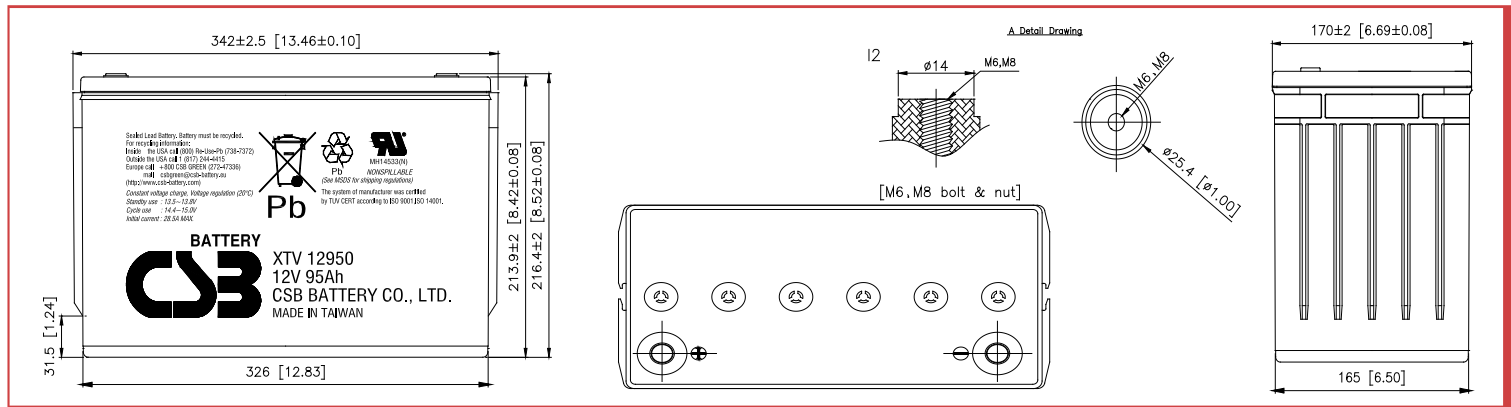
Cells Per Unit	6
Voltage Per Unit	12
Capacity	95 Ah @ 10hr-rate to 1.80 V per cell @25 °C (77°F)
Weight	Approx. 32.8 kg(72.31 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 6.5mΩ
Operating Temperature Range	Discharge: -20 °C~50°C (-4°F~122°F) Charge: -20°C~50°C (-4°F~122°F) Storage: -15°C~40°C (5°F~104°F)
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	28.5A
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	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
Container Material	PP (UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.



CSB-manufactured VRLA batteries are UL-recognized components under UL924 and 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)	216.4±2 (8.52±0.08)	213.9±2 (8.42±0.08)	343±2.5 (13.50±0.1)	170±2 (6.69±0.08)



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

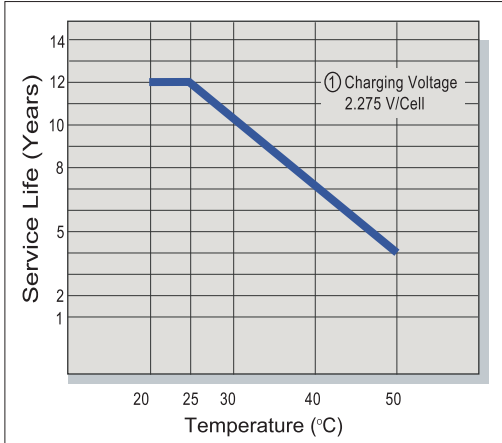
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	361	250	191	116	69.2	41.1	28.3	21.6	17.9	11.9	10.0	5.18
1.67V	319	233	182	114	67.8	40.2	28.0	21.5	17.7	11.8	9.79	5.15
1.70V	298	223	177	112	67.0	39.9	27.6	21.4	17.6	11.7	9.72	5.13
1.75V	264	206	169	107	65.1	38.7	26.9	21.0	17.4	11.6	9.59	5.07
1.80V	240	186	156	101	62.7	37.0	26.4	20.7	17.0	11.4	9.50	4.98
1.85V	198	166	136	92.4	58.5	34.7	25.0	19.5	16.3	11.0	9.05	4.79

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

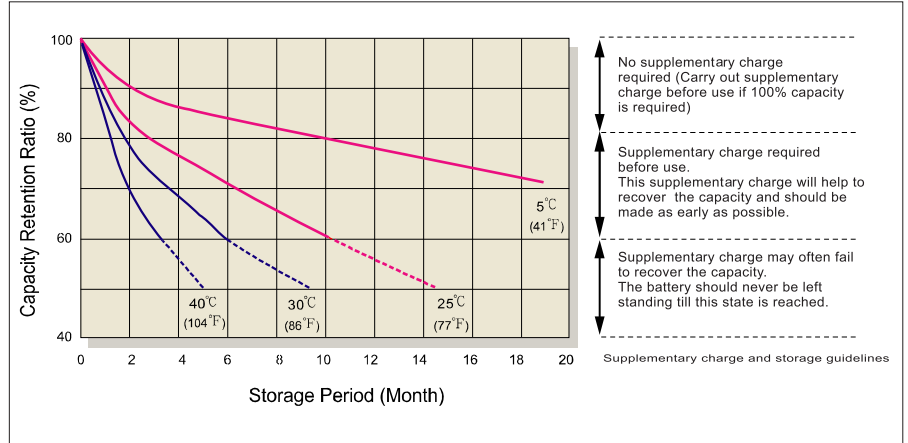
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3,383	2,525	2,032	1,258	768	457	324	254	209	140	117	60.7
1.67V	3,128	2,400	1,972	1,244	757	451	321	250	207	139	116	60.0
1.70V	3,021	2,330	1,950	1,232	755	448	318	249	206	138	115	59.7
1.75V	2,833	2,186	1,829	1,193	739	437	310	245	204	136	114	59.4
1.80V	2,496	2,029	1,675	1,137	713	419	304	238	198	134	113	58.5
1.85V	2,124	1,804	1,476	1,056	672	398	289	226	189	129	108	56.8

Ratings are preliminary and subject to change.

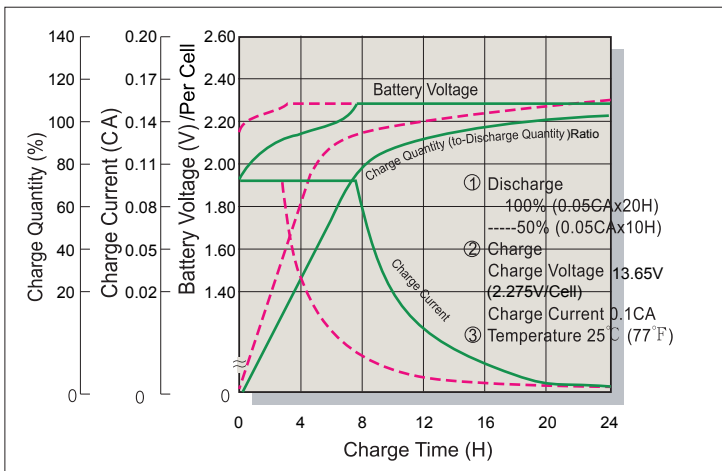
### Trickle (or Float) Service Life



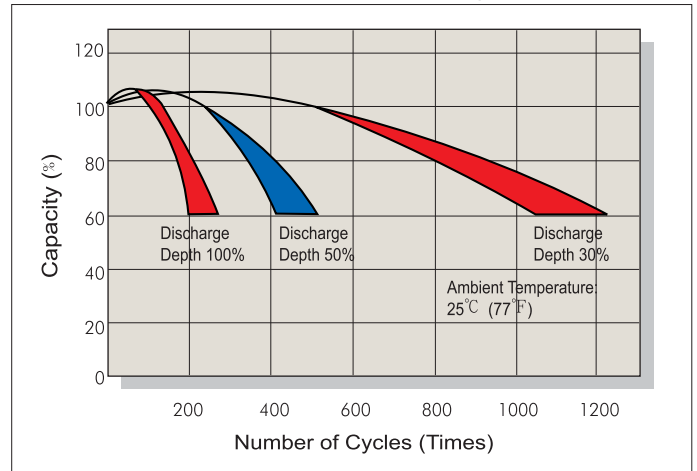
### Capacity Retention Characteristic



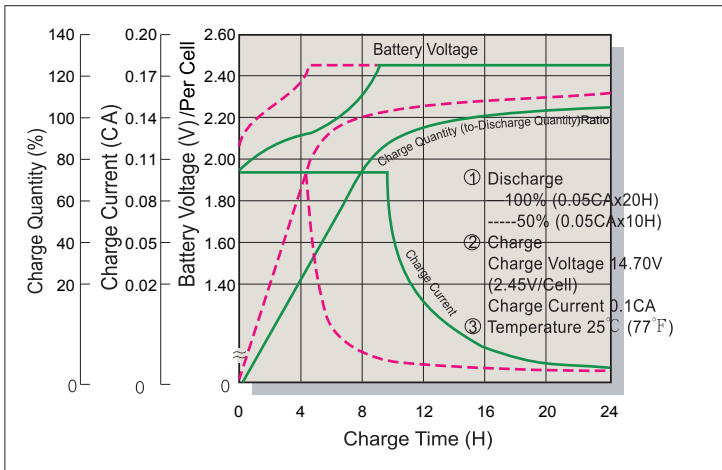
### Battery Voltage and Charge Time for Standby Use



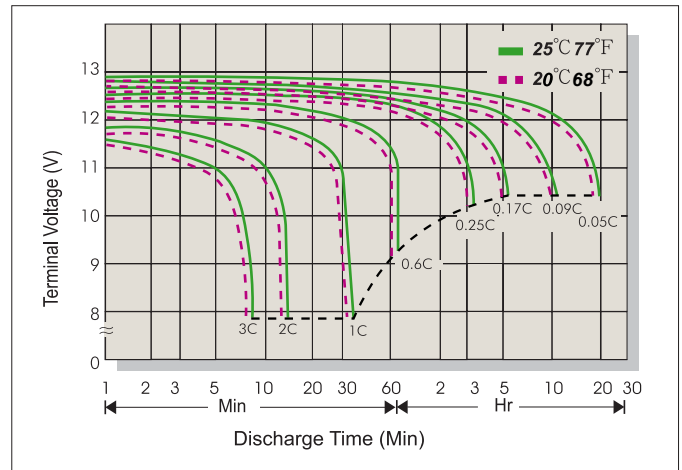
### Series Cycle Service Life



### 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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