



# XTV Series



In accordance with IEC60896-21/22:2004  
In accordance with BS6290-4

XTV-series batteries are specially designed for extreme temperature (-20 to 50 °C). Innovative Valve Regulated Lead-Acid (VRLA) technology enables a 12-year design life in standby use, or more than 260 cycles at 100% discharge. All XTV batteries are rechargeable, leakproof, useable in any orientation and ISO/UL recognized.

- Feature and Benefits**
- Innovative plate structure dramatically improves service life under harsh conditions.
  - Newly formulated lead paste sustains performance while reducing thermal runaway risk.
  - High-grade separator and new electrolyte formula extend battery life.
  - Uniformed plate formation makes capacity consistent.
  - No-spill design.
  - Useable in any orientation.
  - Maintenance free.

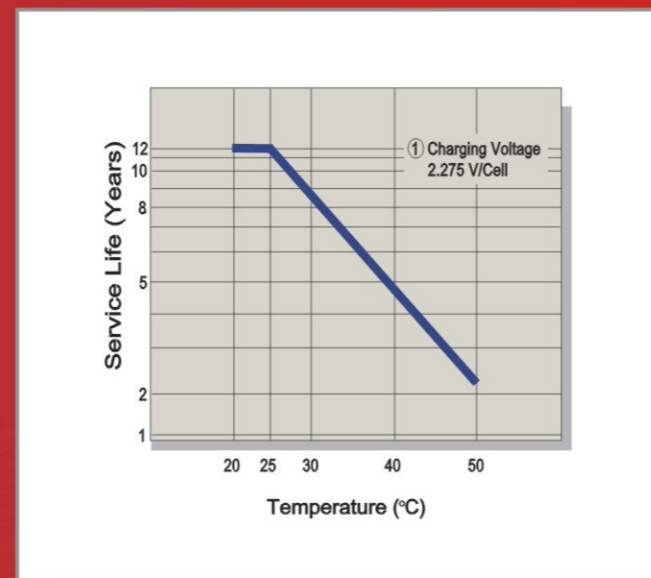
- Long service life**
- Lead-Calcium cast grid design provides longer shelf and service life.

- Reliability**
- CSB-manufactured batteries are 100% 2 cycles tested by CCDS system.
  - CSB-manufactured batteries are UL-recognized components under UL 1989. CSB file number MH14533.
  - ISO9001 and ISO14001 certified.

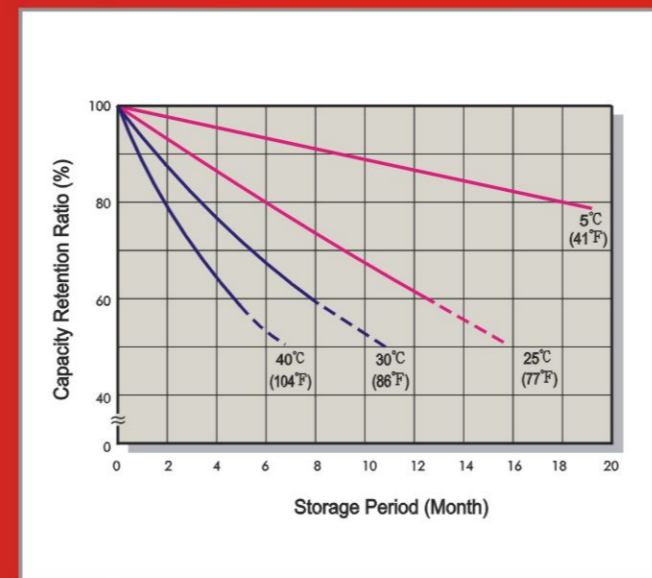
- Applications**
- Standby use**
- Telecom Applications (Distributed Power, PHS, Cellular and Broadband).
  - CATV.
  - Uninterrupted Power Supply Systems.
  - Power Plants and Substations.
  - Signaling and Communication.

- Solar Cell Power Generation**
- Street lighting.
  - Portable power supply.
  - Water pumping.
  - Rural power systems.

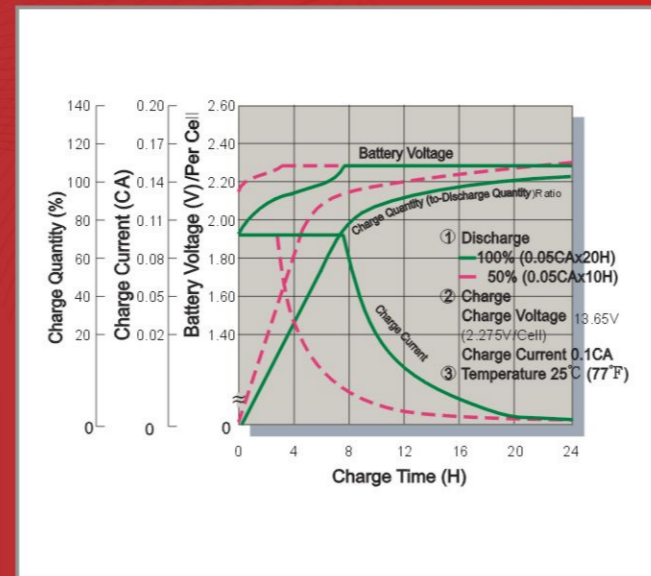
## Trickle (or Float) Service Life



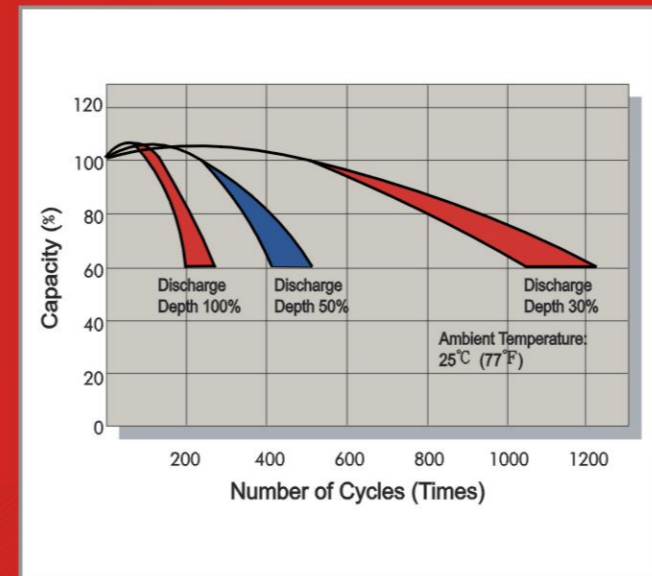
## Capacity Retention Characteristic



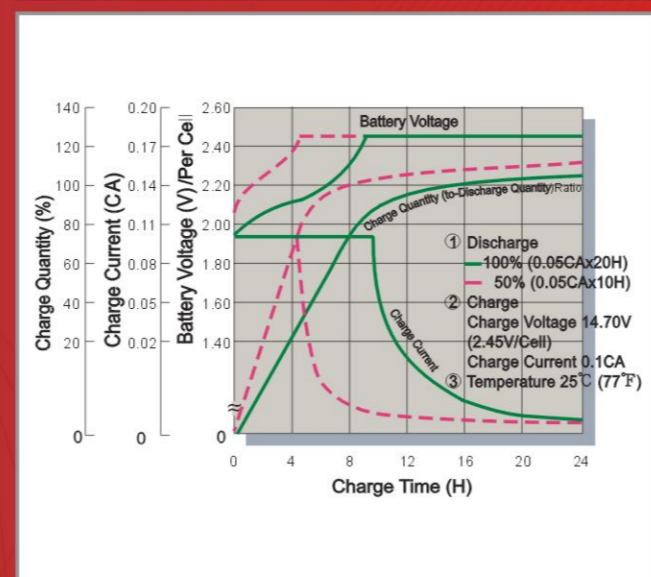
## Battery Voltage and Charge Time for Standby Use



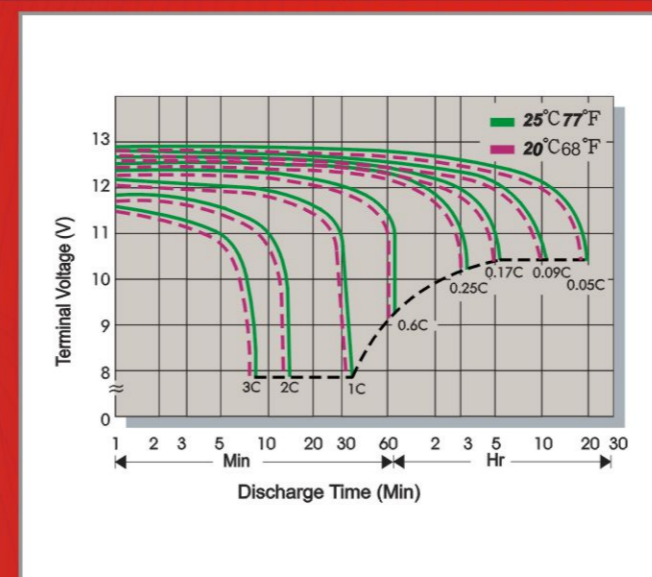
## Cycle Service Life



## Battery Voltage and Charge Time for Cycle Use



## Terminal Voltage (V) and Discharge Time

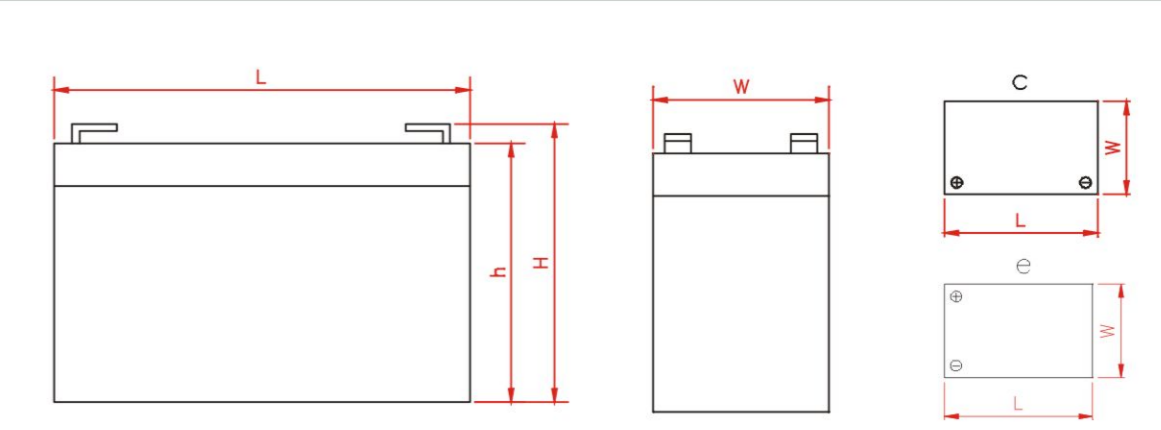


## Specifications

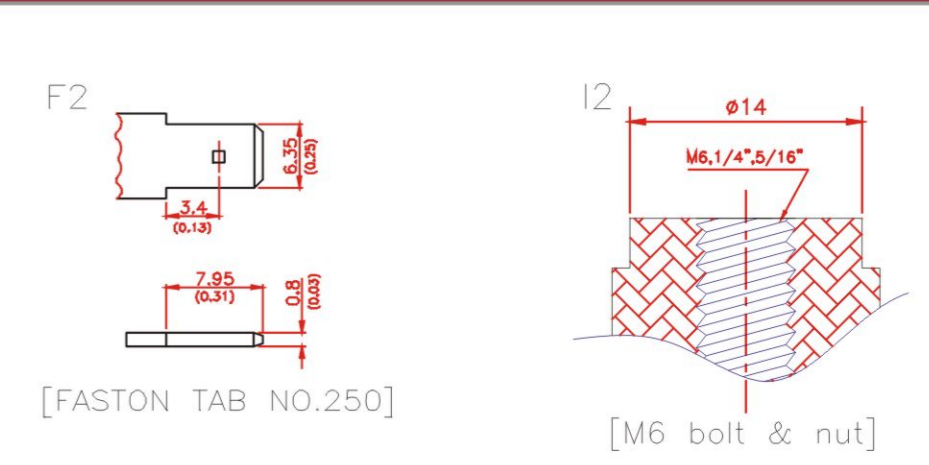
Battery Type	Nominal Voltage(V)	Nominal Capacity (10HR) (Ah)	Weight (Approx. kg)	Energy Density (Wh/l)	Specific Energy (Wh/kg)	Internal Resistance Approx. (mΩ)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Position	Terminal Type	Max. Charging Current (A)	Max. Screw Torque value	
								Overall Height (H)	Container Height (h)	Length (L)	Width (W)				Kgf-cm/ft-lb-in	N-m
XTV1272	12	7.2	2.57	93.6	33.62	21.00	130	100±1.0	94±1.0	151±2.0	65±1.0	e	F2	2.16	---	---
XTV12550	12	55	17.90	103.4	36.87	5.00	300	207.3±2.5	202.3±2.5	228.0±2.5	138.4±1.5	c	I2	16.50	138.6(414)/120.3(359.4)	13.58(40.57)
XTV12800	12	80	25.50	103.9	37.65	4.50	800	213.9±2.5	210.5±2.5	261.0±2.5	168.5±2.0	c	I2	24.00	138.6(414)/120.3(359.4)	13.58(40.57)
XTV121000	12	100	30.20	108.9	39.74	3.90	800	214.3±2.5	211.3±2.5	308.7±2.5	169.0±2.0	c	I2	30.00	138.6(414)/120.3(359.4)	13.58(40.57)
XTV121100	12	110	34.20	105.6	38.60	3.40	800	217.3±2.5	214.3±2.5	343.0±2.5	170.0±2.0	c	I2	33.00	138.6(414)/120.3(359.4)	13.58(40.57)

**Charging(V)** : • Standby Use : 2.275V±0.025/CELL AT 25°C (77°F) Temp. Coefficient -3.3mV/CELL/°C  
• Cycle Use : 2.45V±0.05V/CELL AT 25°C (77°F) Temp. Coefficient -5mV/CELL/°C

## Terminal Position



## Terminal Type



XTV1272											
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)											
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	20HR
1.60V	27.7	17.7	13.4	7.94	4.61	2.68	1.93	1.53	1.26	0.888	0.389
1.67V	26.8	17.4	13.3	7.87	4.48	2.63	1.90	1.50	1.25	0.877	0.385
1.70V	25.8	17.1	13.2	7.82	4.41	2.62	1.89	1.49	1.24	0.868	0.380
1.75V	24.6	16.4	12.9	7.75	4.31	2.60	1.88	1.48	1.23	0.847	0.375
1.80V	21.8	15.4	12.3	7.53	4.23	2.57	1.86	1.47	1.22	0.828	0.371
1.85V	18.3	13.9	11.2	7.10	4.11	2.48	1.80	1.42	1.19	0.802	0.366

Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)											
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	20HR
1.60V	299	193	149	89.8	54.8	32.1	23.1	18.3	15.2	10.3	4.68
1.67V	290	190	148	89.3	54.7	31.9	23.0	18.2	15.1	10.2	4.63
1.70V	282	188	147	88.8	54.5	31.8	22.9	18.1	15.0	10.1	4.60
1.75V	264	182	145	88.1	53.8	31.7	22.8	18.0	14.9	10.0	4.56
1.80V	239	173	138	86.3	53.2	31.4	22.7	17.8	14.8	9.93	4.51
1.85V	206	160	128	82.3	51.8	30.2	21.9	17.5	14.7	9.85	4.45