



VRLA Rechargeable Battery

FTX170-12

Pure Lead Battery for High Temperature



FEATURES

- Excellent high temperature performance
- Special sealing compound to prevent any leaks
- High compression and puncture resistance separator
- Reinforced case resists high temperature condition
- Special alloy inhibits corrosion under the highest temperature extremes
- Electrolyte additive to prevent internal short circuit at high temperature
- Advanced manufacturing techniques to ensure quality products
- Broad operating temperature from -40°C to 65°C (-40°F~149°F)
- Anti-muddy agent to provide the longest life 10 years at 35°C

APPLICATIONS

- Storage energy system
- Power station and UPS system
- Solar
- Telecom
- IDC(Internet Data Center)



SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	10 Hour Rate (17.0A, 10.5V) 170 Ah @ 35°C
Approx. Weight	63.0kg(117.97lbs.)
Terminals	I3 (M8 Female Thread) I2 is optional
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	51 A
Operating Temperature Range	-40°C~65°C(-40°F~149°F)
Self Discharge	< 5% per month (35°C)
Internal Resistance	$\leq 3.5m\Omega$ (Fully Charged)
Float Voltage	2.24 $\pm$ 0.01 VPC. Recommended 2.25 VPC @ 35°C

CONTAINER MATERIAL

- Standard: ABS(UL94 HB)
- Model Name: FTX170-12

Certificate as below:



MH19884

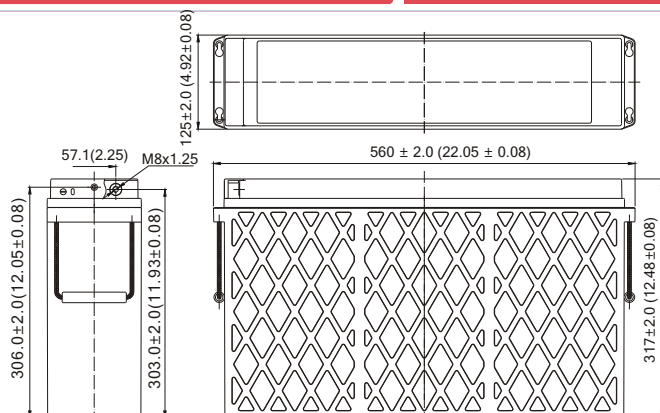


Compliance of the standards as below:

- IEC60896-21/22
- BS 6290/4
- GB/T 19638.1
- Eurobat guide

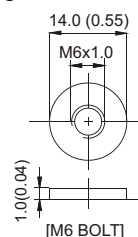
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
560 $\pm$ 2.0(22.05 $\pm$ 0.08)	125 $\pm$ 2.0(4.92 $\pm$ 0.08)	317 $\pm$ 2.0(11.42 $\pm$ 0.08)	317 $\pm$ 2.0(11.42 $\pm$ 0.08)

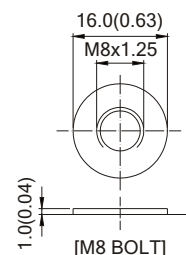


TERMINAL TYPE

- Terminal I2

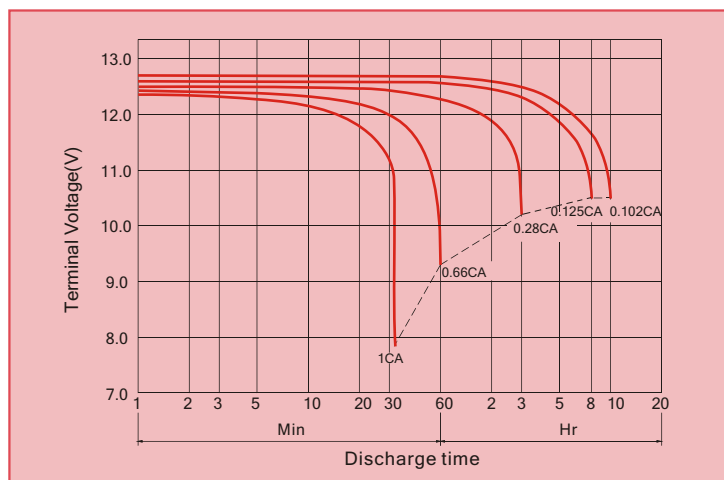


- Terminal I3

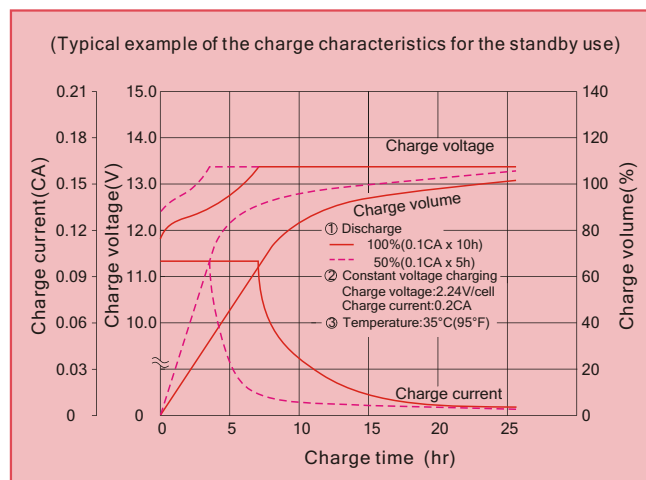


Terminal Hardware Initial Torque:
I2(5.5Nm $\pm$ 5%), I3(10.0Nm $\pm$ 5%)

FTX170-12 discharge characteristics (35°C/95°F)



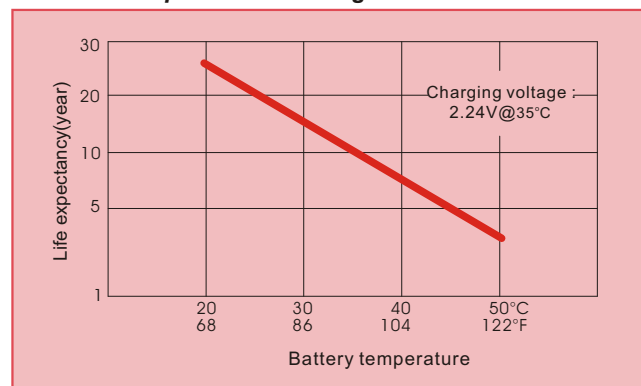
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 35°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.2CA, 35°C (h)	
					100% discharge	50% discharge
For standby power Source	Constant voltage & Constant current charging	2.23~2.25	-3	0.3	24	20
For cycle service	(with current restriction)	2.35~2.40	-4	0.3	20	16

Effect Of Temperature On Long Term Float Life



Constant power discharge characteristics at 35 °C/95 °F

Unit: W

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	45 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.90V	2742	1693	1319	1077	645.7	464.6	361.0	308.3	216.2	179.4	94.2
1.85V	3016	1862	1441	1197	710.8	507.6	394.8	335.1	235.0	195.0	102.4
1.80V	3203	1977	1522	1265	739.3	526.4	408.4	347.1	243.4	201.9	106.1
1.75V	3325	2053	1574	1295	753.2	533.3	415.1	350.5	245.8	204.0	107.1
1.70V	3397	2097	1604	1316	760.3	538.4	418.4	350.6	245.9	204.1	107.2
1.65V	3448	2128	1626	1334	767.2	543.8	422.1	350.7	246.0	204.3	107.2
1.60V	3481	2149	1640	1342	770.2	545.2	422.8	350.8	246.0	204.3	107.2

Constant current discharge characteristics at 35 °C/95 °F

Unit: A

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	45 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.90V	231.5	141.1	109.8	90.8	54.19	38.78	30.08	25.69	180.01	14.95	7.85
1.85V	257.0	156.7	120.9	101.0	59.69	42.37	32.90	27.92	19.58	16.25	8.53
1.80V	257.0	167.7	128.3	106.7	62.04	43.94	34.04	28.93	20.29	16.82	8.84
1.75V	285.2	173.9	132.7	109.2	63.23	44.51	34.60	29.21	20.48	17.00	8.92
1.70V	291.7	177.9	135.3	111.0	63.82	44.94	34.87	29.22	20.49	17.01	8.93
1.65V	295.8	180.4	137.1	112.5	64.42	45.39	35.17	29.23	20.50	17.02	8.93
1.60V	295.8	182.2	138.3	112.5	64.68	45.51	35.23	29.23	20.50	17.02	8.93

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained herein.
For operation, please refer to the instruction from technical manual.

Triat A/1 REV. Jul. 2026

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