

FT General Series Battery

FT General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. FT series Batteries are the general purpose batteries with 12 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

Application

- * Emergency Power System
- * Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- * Electric bicycle and wheelchairs, etc
- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System



General Features

- * Safety Sealing
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Safety and Quality certification
- * Long Life and low self-discharge design

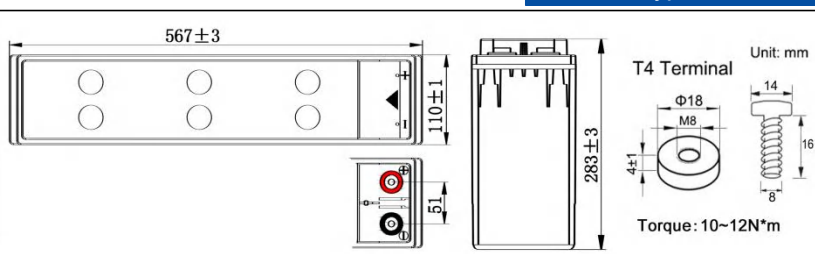
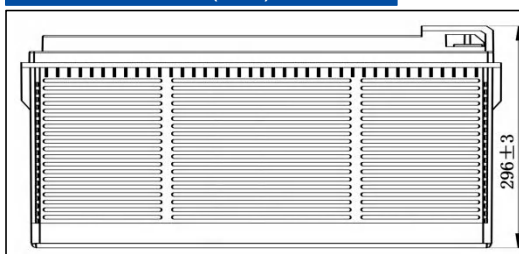
Construction

- * Positive Lead dioxide
- * Electrolyte . . . Sulfuric acid
- * Separator . . . Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve . . . EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		12V (6 cells per unit)	
	Rated capacity (10 Hour rate)		150Ah	
Dimension	Length	Width	Height	Total Height
	567mm (22.32 inches)	110mm (4.33 inches)	283mm (11.14 inches)	296mm (11.65 inches)
Approx Weight	45.4kg(100.08lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 4.60mΩ			
Maximum Charge Current	45A			
Max. discharge current	1200A (5Sec.)			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25°C(77°F)	-15°C~ 50°C (5°F~122°F)	-15°C~ 40°C (5°F~104°F)	-15°C~ 40°C (5°F~104°F)
Capacity @ 25°C (77°F)	10 hour rate(15.0A, 10.8V)	5 hour rate(25.8A, 10.8V)	3 hour rate(39.9A, 10.5V)	1 hour rate(92.0A, 9.6V)
	150.0Ah	129.0Ah	119.7Ah	92.0Ah
Capacity affected by Temp.(10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Charge method	Float Charging Voltage		Equalization Charging Voltage	
	13.5 ~ 13.8 VDC/Unit at 25°C (77°F)		14.4~ 14.9 VDC/Unit at 25°C (77°F)	

Outer dimension (mm)

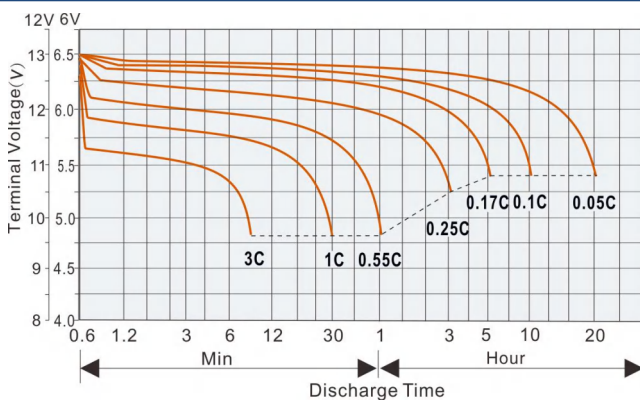


Terminal Type

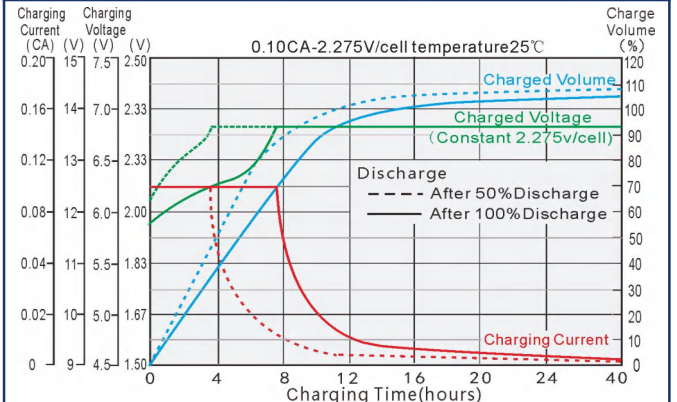
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		15min	20min	30min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	162	140	112	78.0	59.5	49.2	37.0	25.0	17.6	14.70	7.87
	W	309	269	215	151	116.0	96.0	72.4	49.0	34.6	29.10	15.61
1.80V/cell	A	173	149	119	81.6	62.2	51.3	38.5	25.8	18.0	15.00	8.03
	W	327	285	227	156	120.0	99.4	75.0	50.3	35.2	29.50	15.85
1.75V/cell	A	183	157	124	85.0	64.8	53.3	39.9	26.5	18.4	15.29	8.18
	W	343	298	235	162	124.0	102.7	77.3	51.4	35.8	29.90	16.06
1.70V/cell	A	192	164	129	88.3	67.3	55.2	41.2	27.1	18.7	15.57	8.32
	W	356	308	242	166	128.0	105.4	79.0	52.2	36.2	30.20	16.22
1.67V/cell	A	198	168	132	90.0	68.2	56.0	41.7	27.4	18.8	15.66	8.38
	W	363	312	246	168	129.0	106.2	79.5	52.5	36.3	30.30	16.28
1.60V/cell	A	209	177	138	92.0	70.0	57.5	42.5	28.0	19.1	15.85	8.48
	W	374	322	252	171	131.0	108.2	80.4	53.2	36.4	30.40	16.37

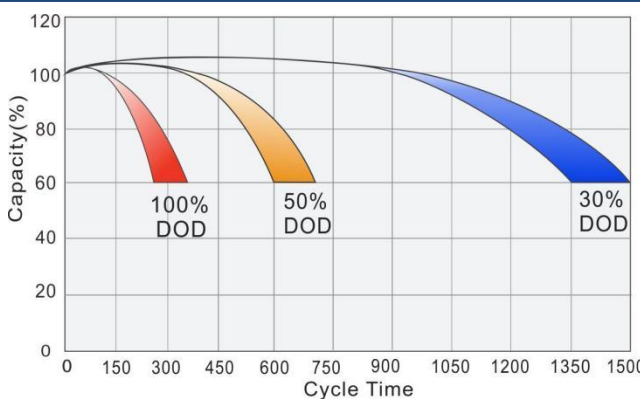
Discharge characteristic curve (25°C/77°F)



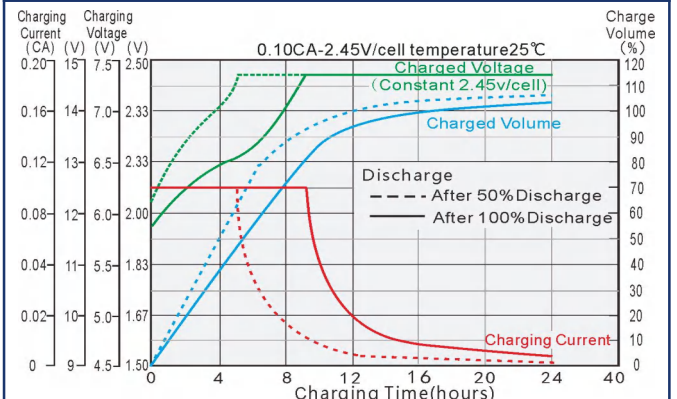
Charging characteristic curve of floating charge (25°C/77°F)



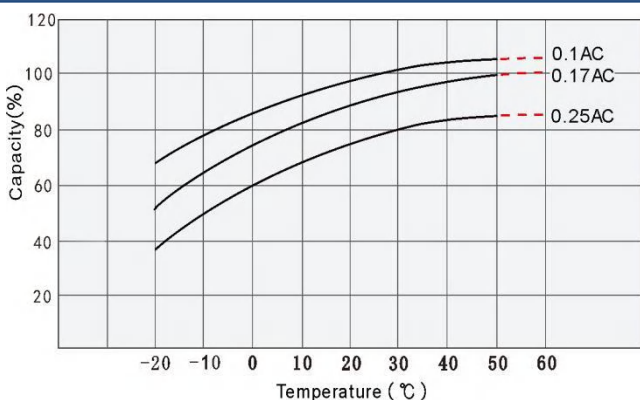
Cycle service life in relation to depth of discharge



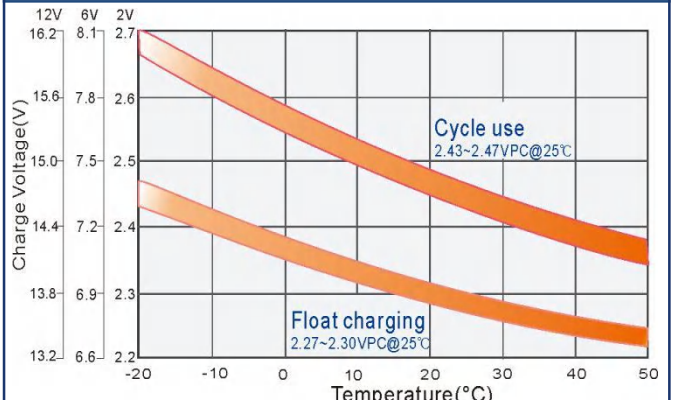
Cyclic charging characteristic curve (25°C/77°F)



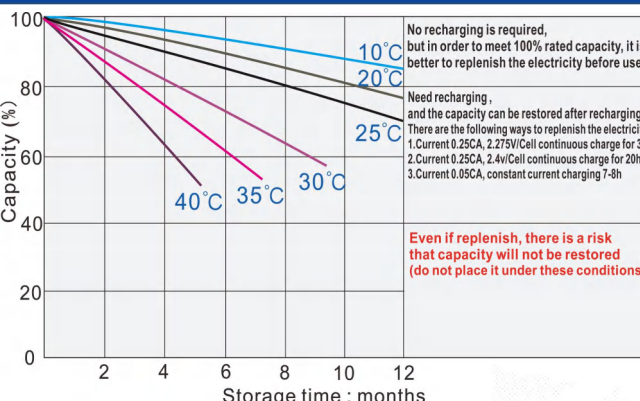
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

