

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

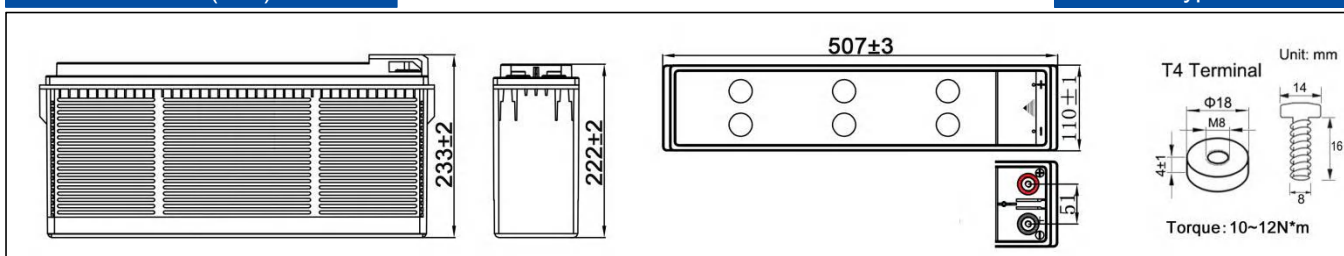
Construction

- * 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)		100Ah	
Dimension	Length	Width	Height	Total Height
	507mm (19.96 inches)	110mm (4.33 inches)	222mm (8.74 inches)	233mm (9.17 inches)
Approx Weight	30.0kg(66.14lbs) ± 3%			
Internal Resistance	Full charged at 25°C(77°F): Approx 4.55mΩ			
Maximum Charge Current	31.5A			
Max. discharge current	840A (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(10.3A, 10.8V)	5 hour rate(17.2A, 10.8V)	3 hour rate(26.78A, 10.5V)	1 hour rate(67.5A, 9.6V)
	103Ah	86.0Ah	80.34Ah	67.5Ah
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)

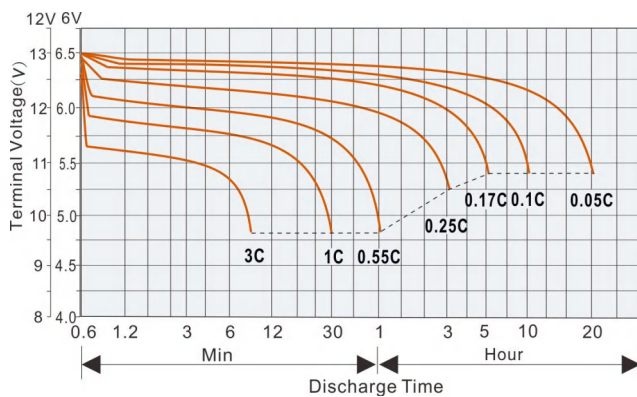


Terminal Type

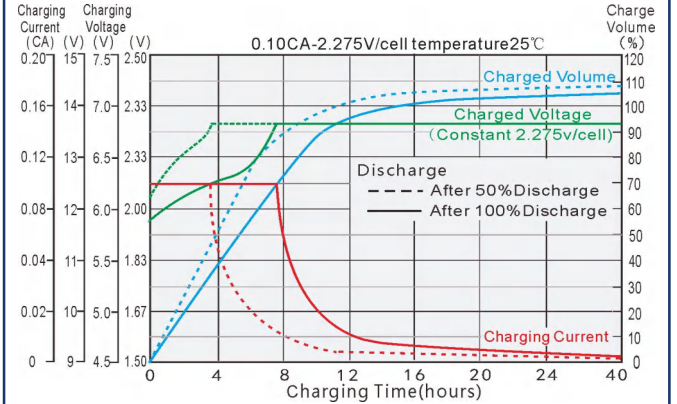
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time		15min	20min	30min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.85V/cell	A	145	120	89.0	57.5	44.2	35.2	25.50	16.80	11.80	10.00	5.32
	W	272	228	170	110	85.2	68.8	50.10	33.20	23.40	19.82	10.62
1.80V/cell	A	157	129	94.5	60.0	45.8	36.4	26.40	17.20	12.12	10.30	5.48
	W	289	240	178	115	87.8	71.0	51.20	33.90	24.00	20.32	10.90
1.75V/cell	A	168	137	100	62.3	47.3	37.5	26.78	17.55	12.42	10.55	5.62
	W	305	252	185	119	90.3	73.0	52.20	34.50	24.60	20.80	11.17
1.70V/cell	A	179	144	104	64.4	48.6	38.5	27.10	17.85	12.70	10.77	5.74
	W	320	263	193	122	92.7	74.8	53.00	35.10	25.00	21.25	11.43
1.67V/cell	A	184	147	106	65.5	49.1	38.9	27.22	18.00	12.81	10.85	5.78
	W	327	266	195	123	93.4	75.2	53.20	35.40	25.20	21.43	11.49
1.60V/cell	A	195	155	111	67.5	50.0	39.5	27.50	18.20	13.00	11.00	5.86
	W	344	278	202	125	94.4	76.1	53.50	35.70	25.40	21.62	11.65

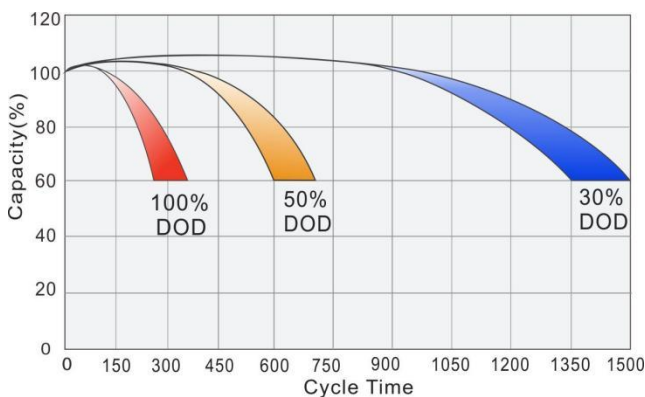
Discharge characteristic curve (25°C/77°F)



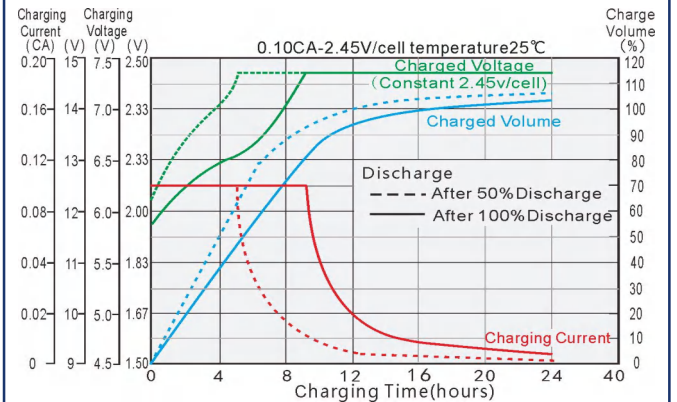
Charging characteristic curve of floating charge (25°C/77°F)



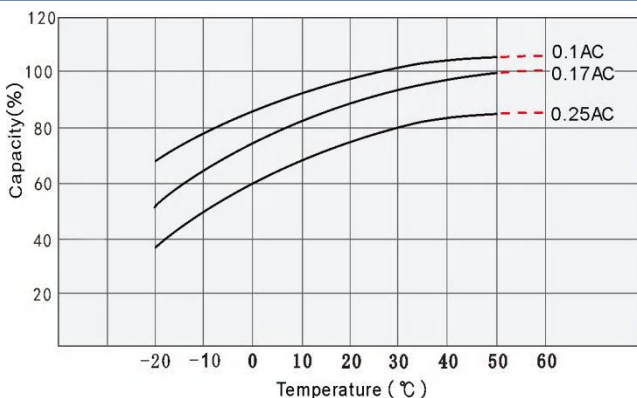
Cycle service life in relation to depth of discharge



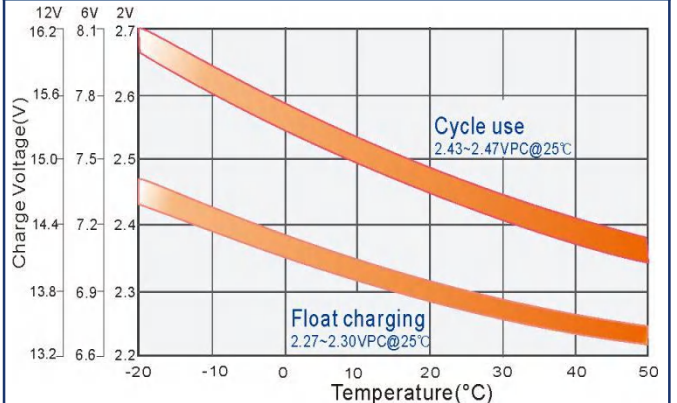
Cyclic charging characteristic curve (25°C/77°F)



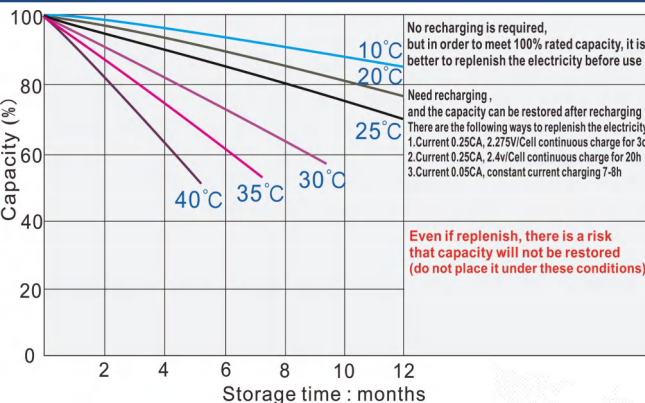
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

