FT General Series Battery

JYC General FT 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 at25℃.
Meet with IEC, BS,JIS and Eurobat standard.



Application

* For standard 19 inches or 23 inches power cabinets
* Network connection equipment of communication systems
* UPS/EPS,standby power supply

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

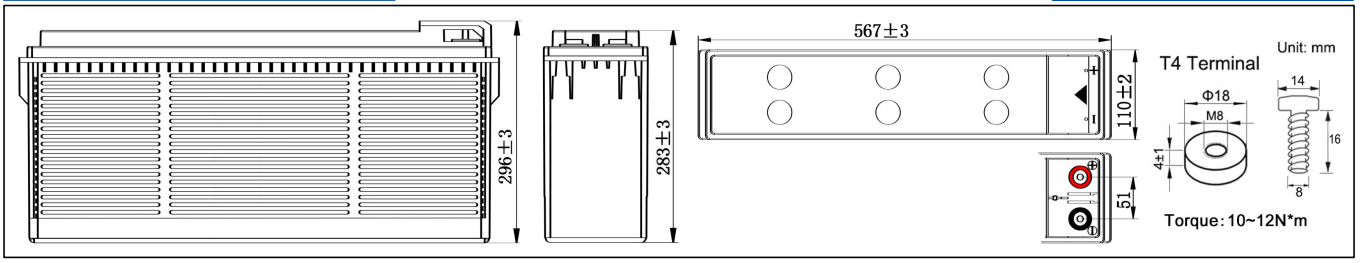
Construction

* Positive……Lead dioxide
* Electrolyte…Sulfuric acid
* Separator …Fiber glass
* Container……ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
* Negative……Lead
* Safety Valve…EPDM
* 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	45.5kg(100.31lbs) ± 3%			
Internal Resistance	Full charged at 25℃(77℉): Approx 4.83mΩ			
Maximum Charge Current	45A			
Max.discharge current	1050A (5Sec.)			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25℃(77℉)	-15℃~ 50℃ (5℉~122℉)	-15℃~ 40℃ (5℉~104℉)	-15℃~ 40℃ (5℉~104℉)
Capacity @ 25℃ (77℉)	10 hour rate(15.02A,10.8V)	5 hour rate(26.53A,10.5V)	3 hour rate(41.1A,10.2V)	1 hour rate(92.0A,9.6V)
	150.2Ah	132.65Ah	123.30Ah	92.00Ah
Capacity affected by Temp.(10HR)	40℃ (104℉)	25℃ (77℉)	0℃ (32℉)	-15℃ (5℉)
	102%	100%	85%	65%
Charge method at 25℃(77℉)	Float Charging Voltage	Equalization Charging Voltage	Cycle Use Voltage	
	13.5~13.8 VDC (-3mV/cell/℃)	14.1~14.4 VDC (-4mV/cell/℃)	14.4~15.0 VDC (-5mV/cell/℃)	

Outer dimension (mm)



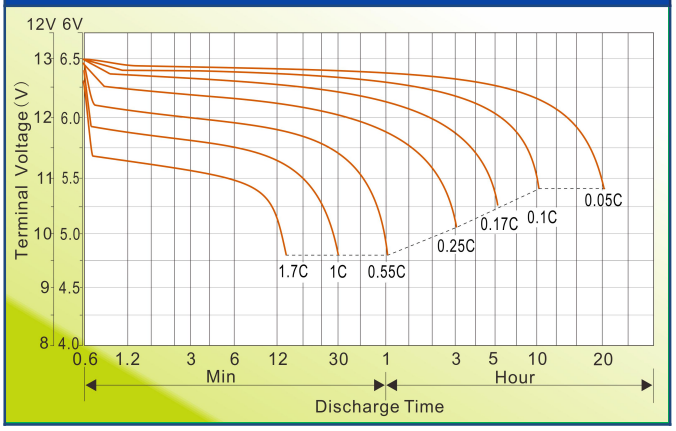
Terminal Type

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃(77℉)

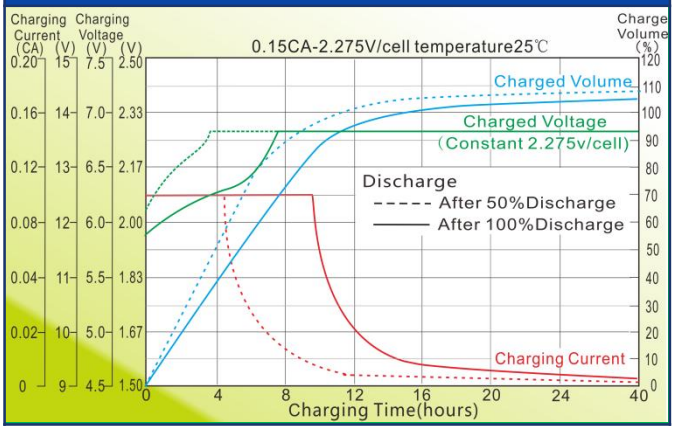
F.V/Time		15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	A	160	112	91.5	78.0	59.5	49.2	37.0	29.90	25.10	21.90	17.65	14.75	7.90
	W	306	218	179.4	153.8	118.0	97.9	73.9	59.90	50.41	44.08	35.60	29.77	15.96
1.80V/cell	A	173	119	95.8	81.6	62.2	51.3	38.5	30.94	25.85	22.53	18.02	15.02	8.07
	W	327	230	187.0	160.2	122.9	101.7	76.7	61.82	51.79	45.22	36.26	30.24	16.27
1.75V/cell	A	184	125	100.0	85.0	64.8	53.3	39.9	31.90	26.53	23.01	18.32	15.25	8.20
	W	343	240	194.4	166.3	127.6	105.4	79.3	63.58	53.03	46.08	36.79	30.64	16.50
1.70V/cell	A	194	130	104.0	88.3	67.3	55.2	41.1	32.80	27.17	23.47	18.58	15.45	8.30
	W	358	248	201.3	172.1	132.2	108.8	81.5	65.24	54.21	46.92	37.25	30.99	16.67
1.67V/cell	A	199	133	106.0	90.0	68.2	56.0	41.6	33.20	27.45	23.67	18.68	15.52	8.34
	W	365	253	204.7	175.2	133.7	110.3	82.4	65.97	54.72	47.28	37.42	31.11	16.74
1.60V/cell	A	209	138	109.5	92.0	70.0	57.5	42.5	33.80	28.00	24.00	18.85	15.65	8.42
	W	379	262	210.7	178.5	136.9	113.0	84.0	67.07	55.75	47.88	37.70	31.33	16.88

Note: The above datas are average values. (Edition 2024-08 A1)

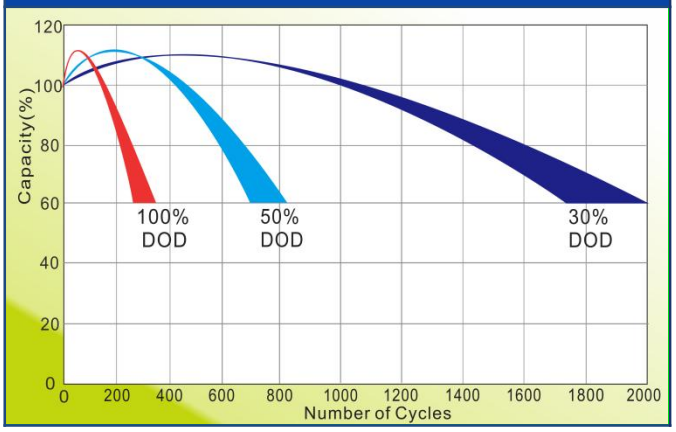
Discharge characteristic curve (25℃/77℉)



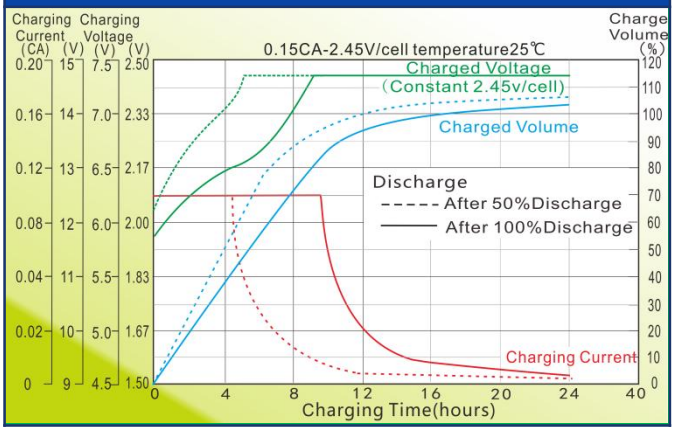
Charging characteristic curve of floating charge(25℃/77℉)



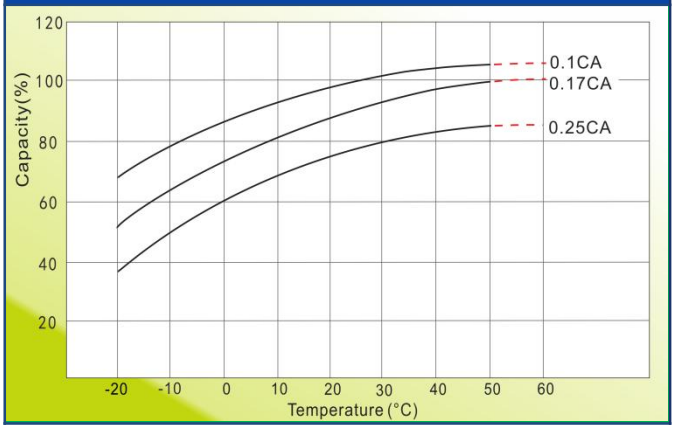
Cycle service life in relation to depth of discharge



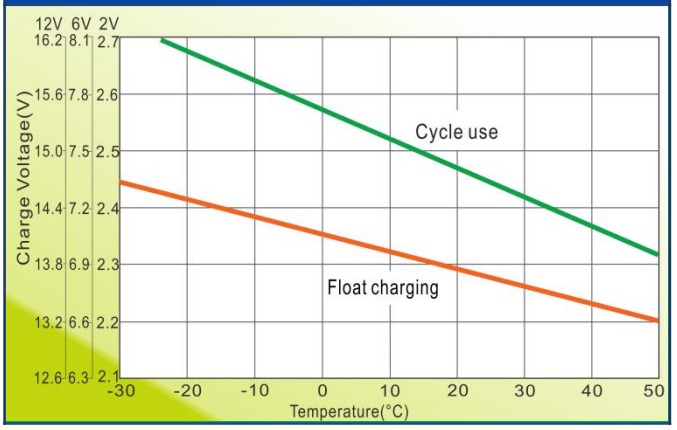
Cyclic charging characteristic curve (25℃/77℉)



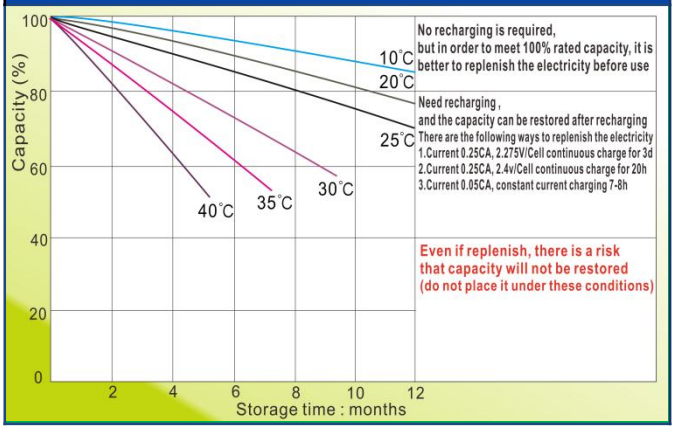
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

