

### ● FT General Series Battery

JYC 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 10 years floating design life at 20°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
- \*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

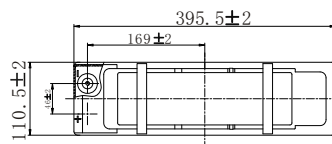
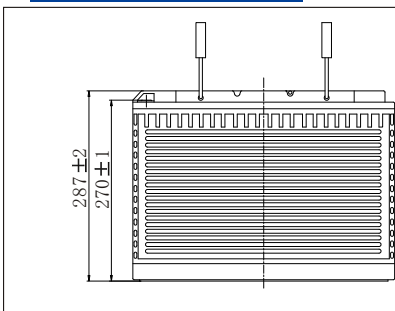
### ● Construction

- \*Positive .....Lead dioxide
- \*Electrolyte .....Sulfuric acid
- \*Separator .....Fiber glass
- \*Container .....ABS(UL94-HB), Flammability Resistance of UL94-V2 can be available upon request
- \*Negative .....Lead
- \*Safety Valve .....EPDR
- \*Terminal .....Copper

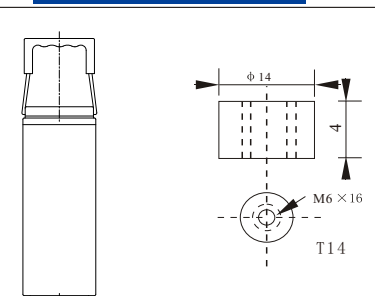
### ● Specification

Battery Model	Nominal Voltage		12V		
	Rated capacity(10HR)		100Ah		
Dimensions	Length		Width	Height	Total Height
	395.5mm (15.57 inches)		110.5mm(4.35 inches)	270mm(10.63 inches)	287mm(11.30 inches)
Approx Weight	30.5kg(67.2lbs) ±3%				
Capacity 20°C (68°F)	20 hr (5.50A,10.8V)	10hr(10.38A,10.8V)	8 hr (12.5A,10.8V)	5 hr (18.9A,10.5V)	1 hr (69.2A,10.2V)
	110.0AH	103.8AH	100.0AH	94.5AH	69.2AH
Max.discharge current	1000A(5Sec.)				
Internal Resistance	Full charged at 20°C:Approx 4.3 mΩ				
Capacity affected by Temp.(10HR)	40 °C (104 °F)		20°C (68°F)		0 °C (32 °F)
	103%		100%		86%
Self Discharge at 20 °C ( 68 °F)	After 3 months storage		After 6 months storage		After 12 months storage
	91%		82%		64%
Charge method 20 °C ( 68 °F)	Cycle Use			Float Use	
	14.4-15.0V(Initial charging current less than 30A)			13.5-13.8V	

### ● Outer dimensions (mm)



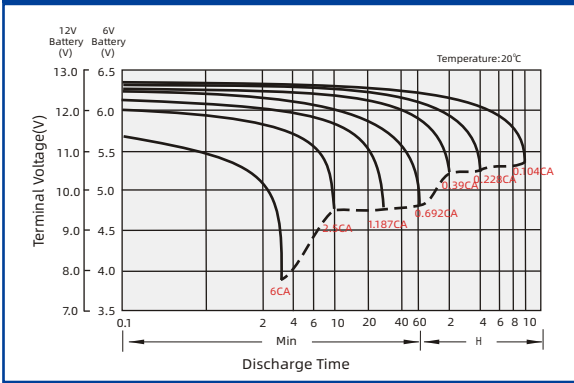
### ● Terminal Type (mm)



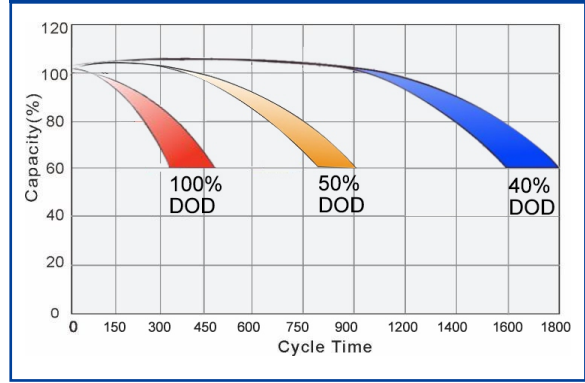
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 20 °C (68°F)

Time		10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.85V/cell	A	173.9	145.0	124.4	97.6	75.7	61.5	36.7	26.4	21.2	17.6	15.3	11.9	9.92	5.26
	W	324.8	273.4	237.0	187.9	147.0	119.9	72.0	52.0	41.9	34.8	30.3	23.7	19.8	10.52
1.80V/cell	A	197.2	161.6	137.7	106.8	81.4	65.7	38.7	28.1	22.3	18.5	16.1	12.5	10.38	5.50
	W	363.9	300.7	258.5	202.5	156.9	127.3	75.4	55.0	43.8	36.4	31.7	24.9	20.7	10.98
1.75V/cell	A	216.4	174.9	146.9	112.2	84.5	68.0	39.4	28.6	22.9	18.9	16.3	12.7	10.49	5.58
	W	393.0	321.4	273.3	211.1	161.4	131.2	76.6	55.7	44.8	37.1	32.1	25.2	20.9	11.14
1.70V/cell	A	231.5	184.2	152.9	115.5	86.5	68.9	40.0	28.8	23.0	19.0	16.5	12.8	10.56	5.62
	W	411.0	333.9	282.2	216.1	164.5	132.5	77.5	56.2	45.0	37.2	32.5	25.4	21.0	11.21
1.67V/cell	A	239.5	188.8	156.0	117.0	86.8	69.2	40.1	28.9	23.1	19.1	16.6	12.9	10.65	5.65
	W	423.6	340.8	286.8	218.4	164.5	132.8	77.6	56.1	45.1	37.3	32.6	25.5	21.2	11.25
1.60V/cell	A	251.8	196.0	163.0	119.9	89.1	71.0	40.8	29.3	23.4	19.3	16.7	12.98	10.80	5.68
	W	433.0	346.9	295.4	221.0	167.0	134.9	78.2	56.5	45.4	37.6	32.7	25.6	21.4	11.30

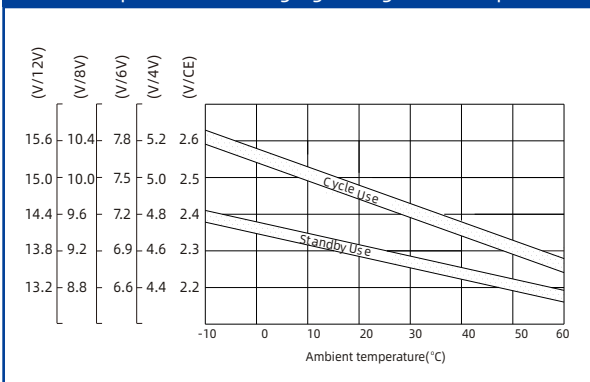
### Discharge characteristic Curve



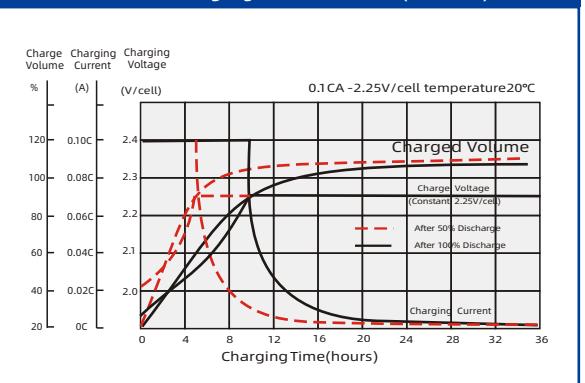
### Cycle service life in relation to depth of discharge



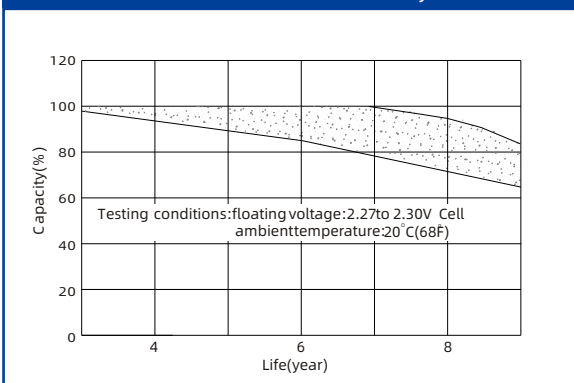
### Relationship between charging voltage and temperature



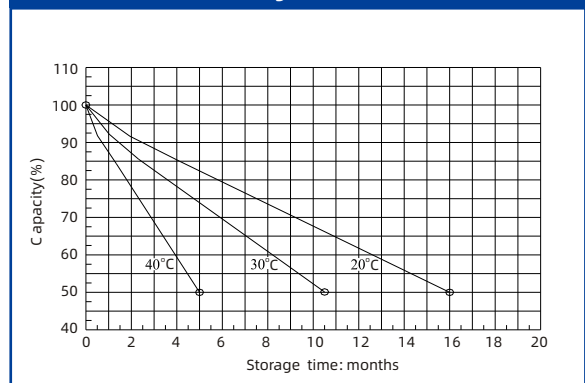
### Float charging characteristic ( at 20°C)



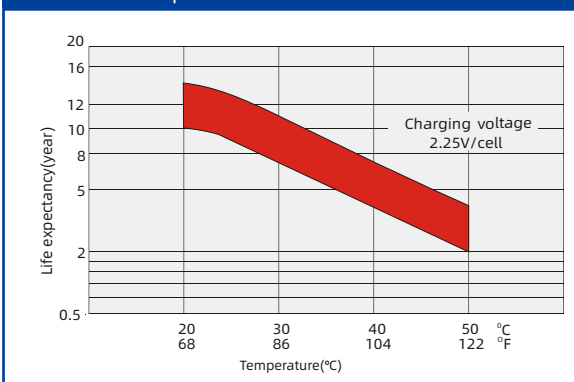
### Life characteristics of standby use



### Self-discharge characteristic



### Temperature effects on float life



### Charge characteristic Curve for standby use

