JYC BATTERY MANUFACTURER CO.,LTD

FT180-12 (12V180Ah)

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 25℃. 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

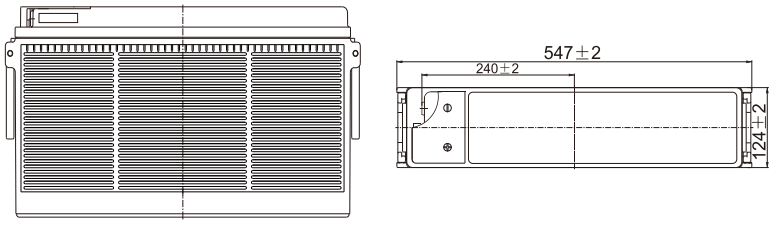
Construction

*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

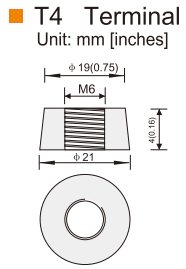
Specification

Battery Model	Nominal Voltage	12V			
	Ratedcapacity(10HR)	180Ah			
Dimensions	Length	Width	Height	Total Height	
	547mm (21.53 inches)	124mm(4.88 inches)	310mm(12.20 inches)	320mm(12.59 inches)	
Approx Weight	52.2kg(115.08lbs) ±3%				
Capacity 25℃ (77℉)	20 hr (9.13A,10.8V)	10hr(18.0A,10.5V)	8 hr (22.25,10.8V)	5 hr (32.03A,10.5V)	1 hr (106.43A,10.2V)
	182.6AH	180.0AH	178.0AH	160.15AH	106.43AH
Max.discharge current	1800A(5Sec.)				
Internal Resistance	Full charged at 25 ℃: Approx 4.4mΩ				
Capacity affected by Temp.(10HR)	40 ℃ (104 ℉)	25 ℃ (77 ℉)	0 ℃ (32 ℉)		
	103%	100%	86%		
Self Discharge at 25 ℃ (77 ℉)	After 3 months storage	After 6 months storage	After 12 months storage		
	91%	82%	64%		
Charge method 25 ℃ (77 ℉)	Cycle Use	Float Use			
	14.4-15.0V(Initial charging current less than 54A)	13.5−13.8V			

Outer dimensions (mm)



Terminal Type (mm)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 ℃ (77℉)									
F.V/time	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	180.000	108.000	79.043	66.632	47.464	32.392	22.935	18.677	10.385
	358.560	215.460	157.826	133.319	94.967	64.810	45.890	37.370	20.778
1.67V	176.154	107.217	78.261	66.300	47.215	32.213	22.742	18.387	9.865
	351.075	213.913	156.303	132.766	94.640	64.569	45.598	36.866	19.780
1.70V	174.615	106.435	78.183	66.134	47.095	32.205	22.514	18.155	9.602
	348.019	212.609	156.209	132.489	94.426	64.571	45.163	36.419	19.262
1.75V	171.538	104.870	77.165	65.719	46.800	32.035	22.452	18.000	9.450
	342.136	210.000	154.330	131.635	93.881	64.261	45.072	36.135	18.971
1.80V	167.692	104.087	76.617	65.304	46.551	31.945	22.258	17.710	9.138
	334.615	208.696	153.618	130.830	93.428	64.114	44.716	35.579	18.359
1.85V	163.077	102.522	75.757	64.723	46.136	31.767	21.968	17.419	8.827
	325.641	205.864	152.271	129.723	92.688	63.820	44.177	35.030	17.751

Note: The above datas are average values. (Edition 2020-05)

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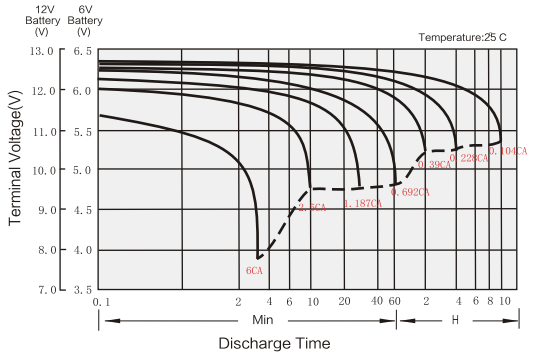
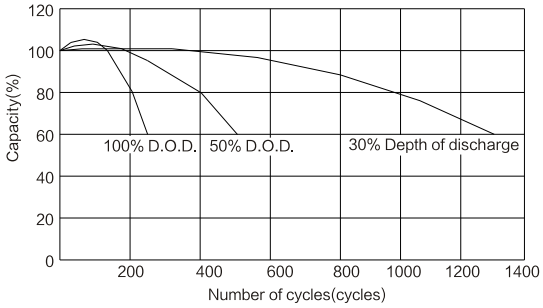
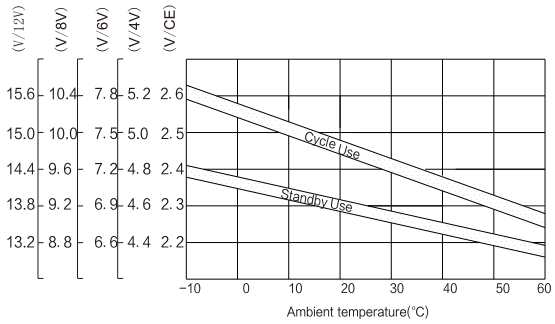
Discharge characteristic Curve



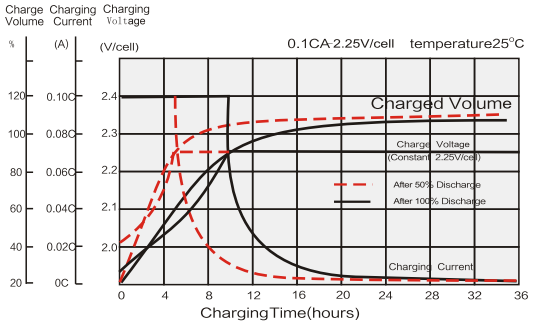
Cycle service life in relation to depth of discharge



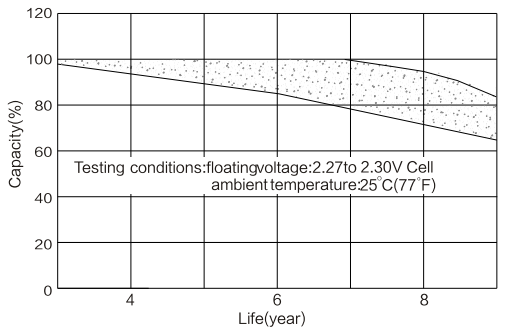
Relationship between charging voltage and temperature



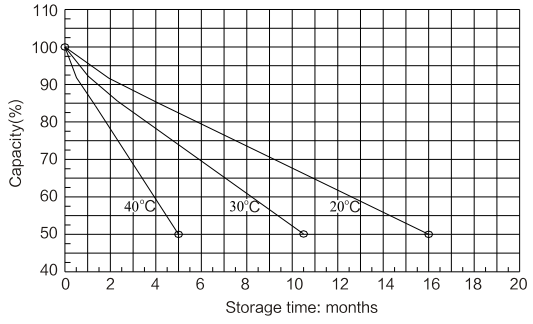
Float charging characteristic (at 25℃)



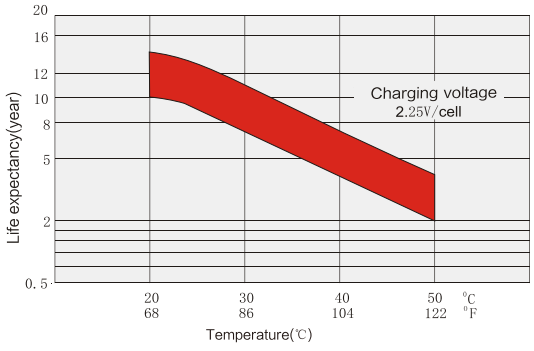
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve forstandby use