

General Series Battery

JYC General (GP) 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. GP Series Batteries are the general purpose batteries with 15 years floating design life at 25 °C Meet with IEC, BS, JIS and Eurobat standard. UL (MH62092), CE approved.

Application

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

General Features

- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * 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

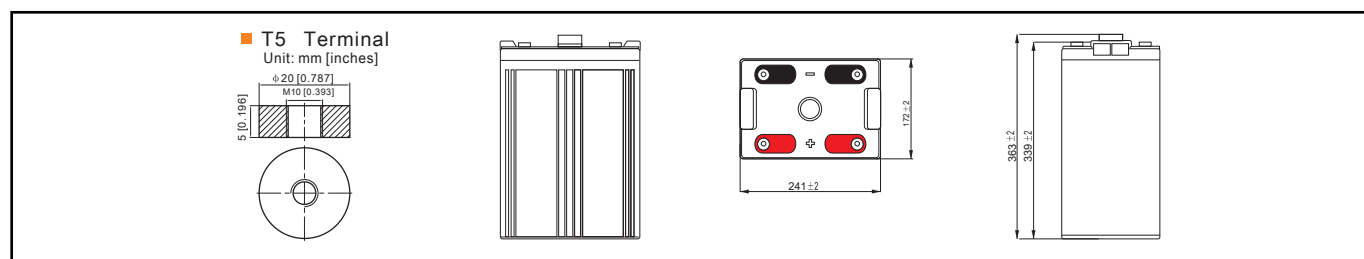


Specification

Battery Model	Nominal Voltage		2	
	Rated capacity (10 Hour rate)		500Ah	
	Cells Per battery		1	
Dimension	Length	Width	Height	Total Height
	241mm (9.48 inches)	172mm (6.77 inches)	339mm (13.34 inches)	363mm (14.29 inches)
Approx Weight	26.5kg (58.42lbs) ± 3%			
Capacity @ 0°C - 50°C	10 hour rate(50A, 10.5V)	5 hour rate(89.42A, 10.8V)	3 hour rate(131A, 10.5V)	1 hour rate(275.7A, 9.6V)
	500Ah	447.1Ah	393Ah	275.7Ah
Max. discharge current	4000A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 0.55mΩ			
Capacity affected by Temp. (20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @ 25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @ 25°C (77°F)	Cycle Use		Float Use	
	2.35-2.40V (Initial charging current less than 150A)		2.25-2.27V	

Outer dimension (mm)

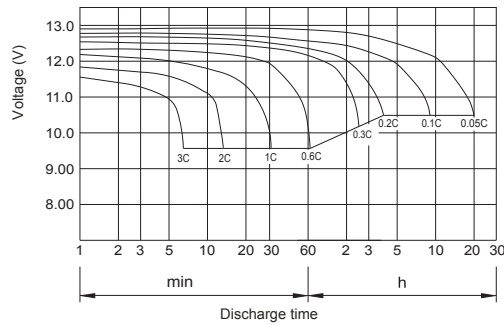
Terminal Type (mm)



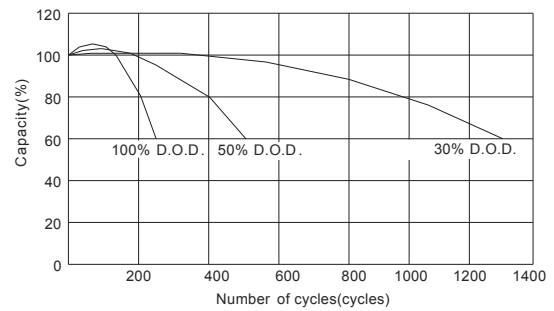
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V/time	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	275.700	201.780	186.512	132.858	90.669	63.710	51.882	28.901
	550.022	402.895	373.180	265.827	181.412	127.472	103.807	57.826
1.67V	273.702	199.783	185.583	132.161	90.169	63.172	51.075	27.456
	546.072	399.006	371.631	264.910	180.739	126.660	102.406	55.049
1.70V	271.704	199.583	185.119	131.827	90.146	62.539	50.431	26.724
	542.743	398.766	370.857	264.313	180.744	125.454	101.165	53.609
1.75V	267.709	196.986	183.957	131.000	89.670	62.366	50.000	26.300
	536.083	393.971	368.467	262.786	179.877	125.199	100.375	52.797
1.80V	265.711	195.587	182.796	130.303	89.420	61.828	49.194	25.433
	532.754	392.152	366.212	261.519	179.465	124.212	98.830	51.095
1.85V	261.715	193.390	181.170	129.142	88.920	61.022	48.387	24.566
	525.524	388.713	363.115	259.446	178.641	122.714	97.306	49.402

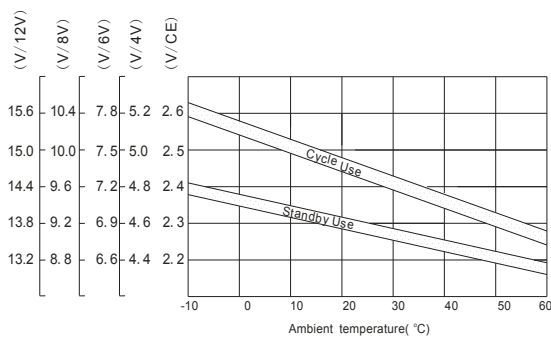
Discharge characteristic Curve



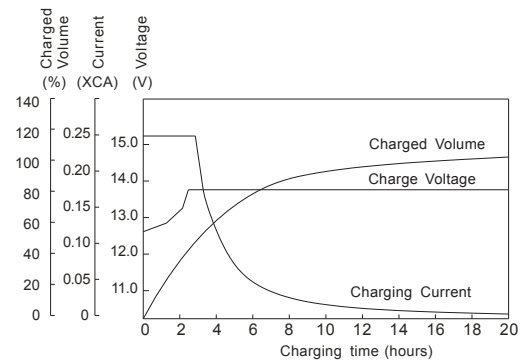
Cycle service life in relation to depth of discharge



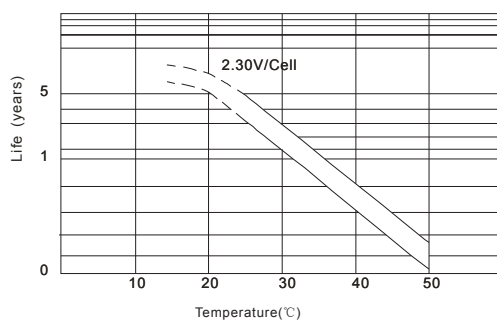
Relationship between charging voltage and temperature



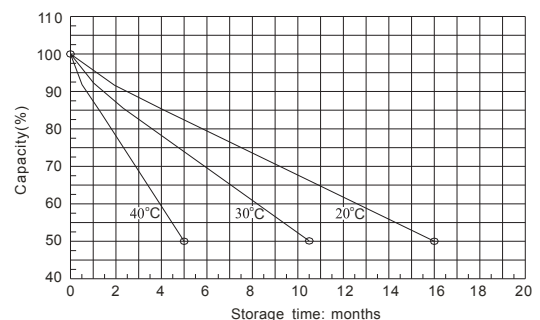
Constant voltage charging characteristic (0.25CA, at 25°C)



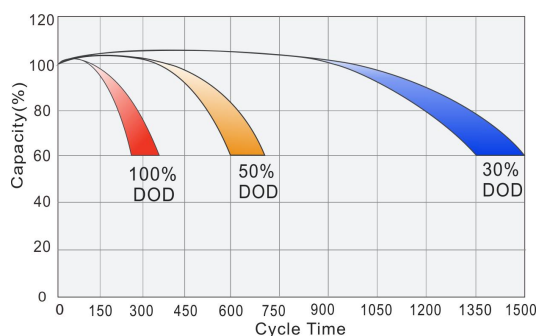
Temperature effects on float life



Self-discharge characteristic



Cycle service life in relation to depth of discharge



Charge characteristic Curve for standby use

