

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 5 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

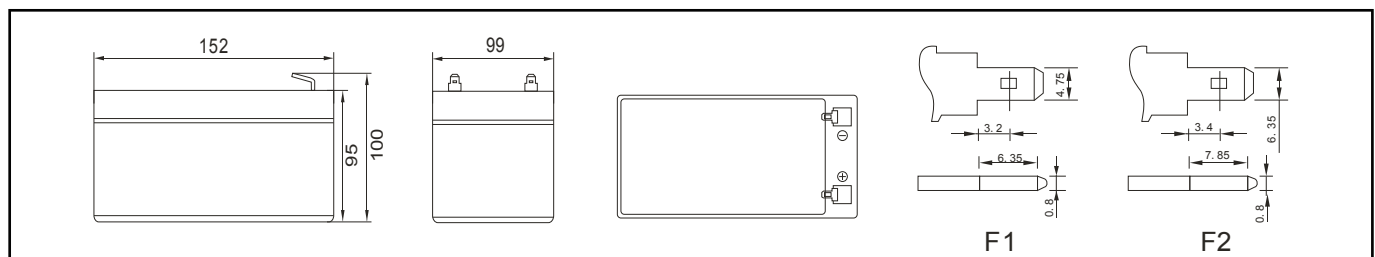
Construction

- * 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		12V	
	Rated capacity (20 Hour rate)		10Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	152mm (5.98 inches)	99mm (3.89 inches)	95mm (3.74 inches)	100mm (3.94 inches)
Approx Weight	3kg (7.28lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(0.54A,10.5V)	10 hour rate(0.984A,10.8V)	5 hour rate(1.917A,10.5V)	1 hour rate(6A,9.6V)
	10.8Ah	9.84Ah	9.585Ah	6Ah
Max.discharge current	180A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 19mΩ			
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	
	14.4-14.7V (Initial charging current less than 3A)		13.50-13.80V	

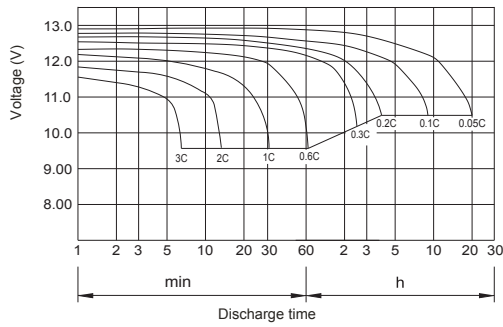
Outer dimension (mm)



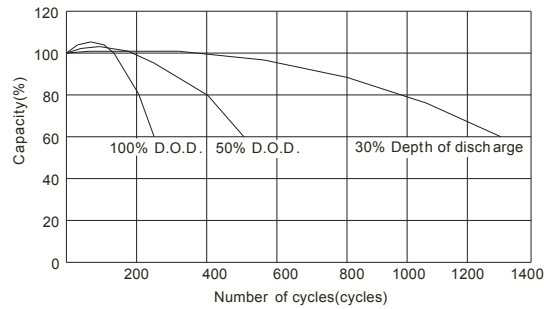
Terminal Type (mm)

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)												
F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	40.200	25.252	19.100	10.500	6.000	4.391	3.987	2.840	1.938	1.274	1.038	0.593
	74.352	48.205	36.863	20.916	11.970	8.768	7.976	5.682	3.878	2.549	2.076	1.187
1.67V	35.689	23.565	18.108	10.276	5.957	4.348	3.967	2.825	1.927	1.263	1.022	0.564
	65.998	44.980	34.975	20.479	11.884	8.683	7.943	5.662	3.863	2.533	2.048	1.130
1.70V	33.784	22.722	17.661	10.186	5.913	4.343	3.957	2.818	1.927	1.251	1.009	0.549
	62.489	43.398	34.139	20.301	11.812	8.678	7.927	5.649	3.863	2.509	2.023	1.101
1.75V	30.576	21.382	16.917	10.006	5.826	4.287	3.932	2.800	1.917	1.247	1.000	0.540
	56.557	40.849	32.735	19.958	11.667	8.574	7.876	5.617	3.845	2.504	2.008	1.084
1.80V	27.318	19.943	16.223	9.782	5.783	4.257	3.907	2.785	1.911	1.237	0.984	0.522
	50.542	38.114	31.439	19.519	11.594	8.534	7.827	5.590	3.836	2.484	1.977	1.049
1.85V	24.060	18.505	15.379	9.513	5.696	4.209	3.872	2.760	1.901	1.220	0.968	0.504
	44.527	35.380	29.836	18.996	11.437	8.459	7.761	5.545	3.818	2.454	1.946	1.014

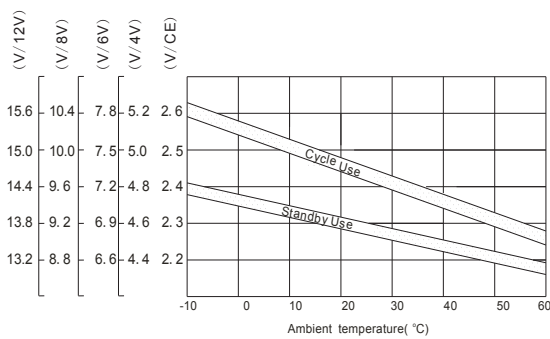
Discharge characteristic Curve



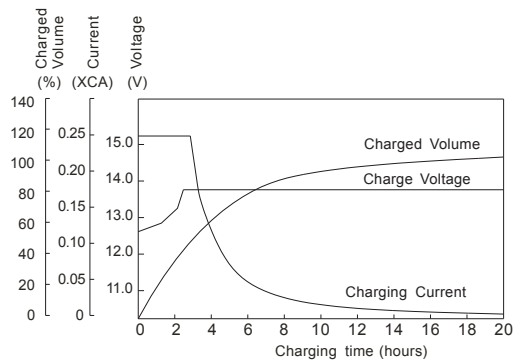
Cycle service life in relation to depth of discharge



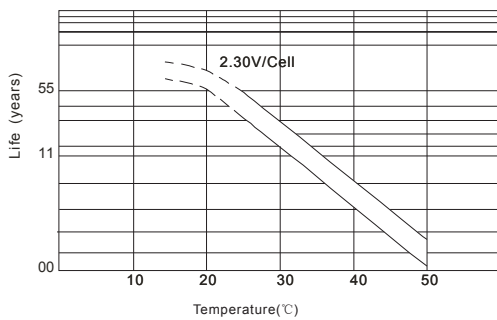
Relationship between charging voltage and temperature



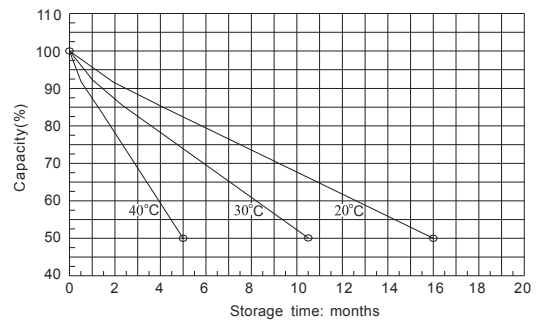
Constant voltage charging characteristic (0.25CA, at 25°C)



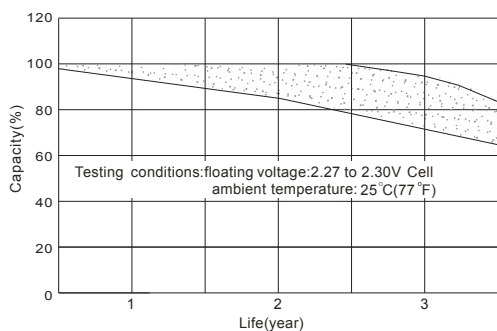
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

