

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

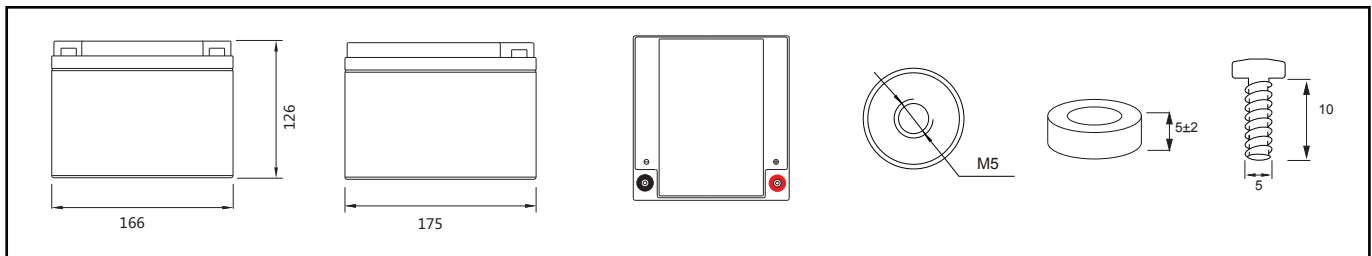
- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		28Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	175mm (6.88 inches)	166mm (6.53 inches)	126mm (4.96 inches)	126mm (4.96 inches)
Approx Weight	7.70kg (16.31lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(1.44A,10.5V)	10 hour rate(2.74A,10.5V)	5 hour rate(4.983A,10.5V)	1 hour rate(16.8A,9.6V)
	28.8Ah	27.4Ah	24.915Ah	16.8Ah
Max.discharge current	360A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 11mΩ			
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 8.4A)		13.50-13.80V	

Outer dimension (mm)

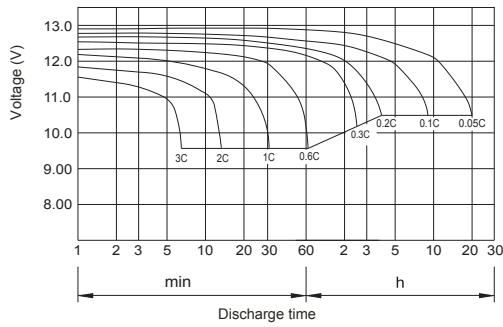
Terminal Type (mm)



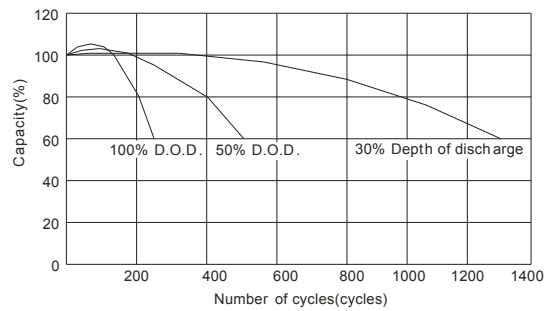
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	95.200	62.931	47.600	30.100	16.800	12.296	10.365	7.383	5.039	3.491	2.843	1.582
	176.076	120.133	91.868	59.959	33.516	24.551	20.739	14.773	10.082	6.985	5.689	3.166
1.67V	84.517	58.727	45.127	29.457	16.678	12.174	10.313	7.345	5.011	3.462	2.799	1.503
	156.293	112.097	87.164	58.707	33.275	24.314	20.652	14.722	10.044	6.941	5.612	3.014
1.70V	80.006	56.625	44.015	29.200	16.557	12.162	10.288	7.326	5.010	3.427	2.764	1.463
	147.983	108.155	85.080	58.197	33.072	24.299	20.609	14.689	10.044	6.875	5.544	2.935
1.75V	72.409	53.287	42.160	28.685	16.313	12.003	10.223	7.280	4.983	3.418	2.740	1.440
	133.937	101.801	81.580	57.213	32.667	24.007	20.477	14.604	9.996	6.861	5.501	2.891
1.80V	64.693	49.702	40.429	28.042	16.191	11.918	10.158	7.241	4.969	3.388	2.696	1.393
	119.692	94.987	78.352	55.955	32.464	23.896	20.351	14.533	9.973	6.807	5.416	2.798
1.85V	56.978	46.116	38.327	27.270	15.948	11.784	10.068	7.177	4.942	3.344	2.652	1.345
	105.448	88.172	74.355	54.454	32.023	23.687	20.179	14.418	9.928	6.725	5.332	2.705

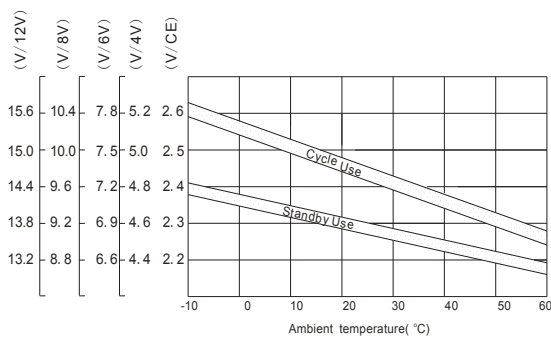
Discharge characteristic Curve



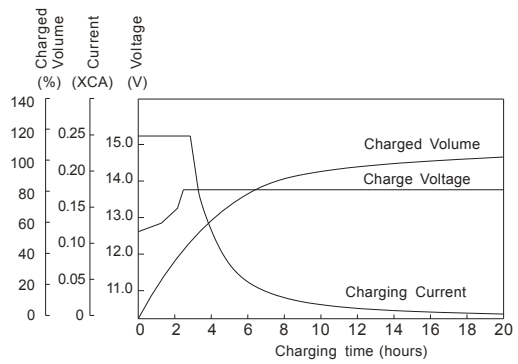
Cycle service life in relation to depth of discharge



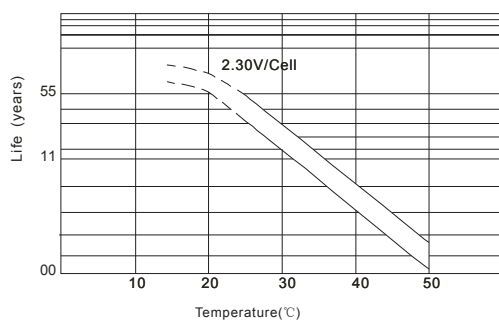
Relationship between charging voltage and temperature



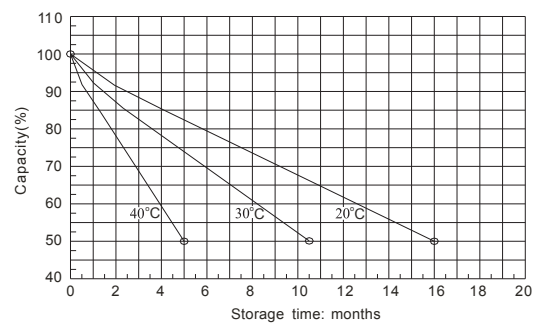
Constant voltage charging characteristic (0.25CA, at 25°C)



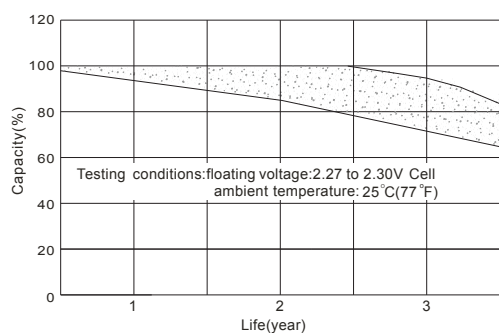
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use

