

### 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 10 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

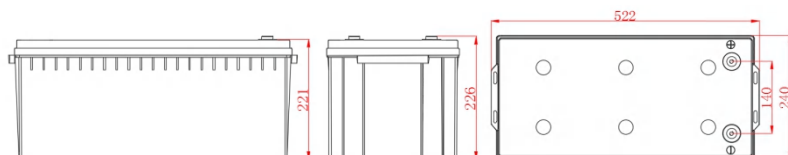
### Construction

- \* 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 (10 Hour rate)		230Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	522mm (20.55 inches)	268mm (10.55 inches)	220mm (8.66 inches)	225mm (8.86 inches)
Approx Weight	61.0kg(134.48lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(11.97A,10.5V)	10 hour rate(23A,10.5V)	5 hour rate(40.93A,10.5V)	1 hour rate(126.5A,9.6V)
	239.4Ah	230Ah	204.67Ah	126.5Ah
Max.discharge current	2300A (5 Sec.)			
Internal Resistance	Full charged at 25°C(77°F): Approx 2.6mΩ			
Capacity affected by Temp.(10HR)	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	
	14.40-14.70V (Initial charging current less than 69A)		13.50-13.80V	

### Outer dimension (mm)



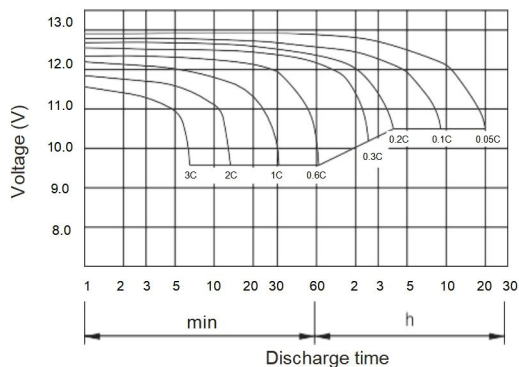
### Terminal Type (mm)



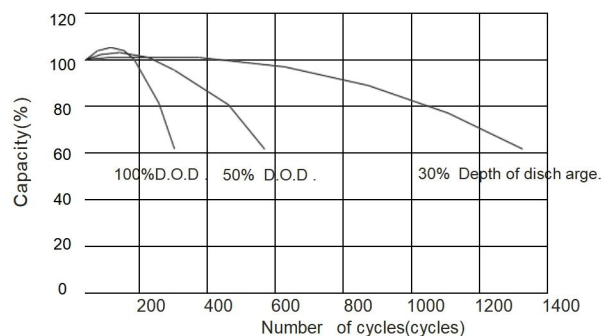
### Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

	F.V/time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
A	1.60V	391.000	235.000	126.500	92.583	85.141	60.648	41.389	29.306	23.866	13.154
	1.67V	370.688	229.979	125.583	91.667	84.717	60.330	41.161	29.059	23.495	12.496
	1.70V	361.548	227.970	124.667	91.575	84.505	60.178	41.151	28.768	23.198	12.163
	1.75V	346.314	223.953	122.833	90.383	83.974	59.800	40.933	28.688	23.000	11.970
	1.80V	332.096	218.932	121.917	89.742	83.444	59.482	40.819	28.441	22.629	11.575
	1.85V	314.831	212.906	120.083	88.733	82.702	58.952	40.591	28.070	22.258	11.181
	F.V/time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
W	1.60V	754.630	468.120	252.368	184.861	170.352	121.347	82.813	58.637	47.751	26.319
	1.67V	715.987	458.347	250.556	183.077	169.645	120.928	82.505	58.264	47.107	25.055
	1.70V	698.872	454.359	249.028	182.967	169.292	120.656	82.507	57.709	46.536	24.399
	1.75V	670.118	446.678	245.972	180.767	168.201	119.959	82.112	57.592	46.173	24.030
	1.80V	643.602	436.859	244.444	179.932	167.171	119.380	81.924	57.138	45.462	23.255
	1.85V	610.772	425.142	241.127	178.354	165.758	118.434	81.547	56.449	44.761	22.485

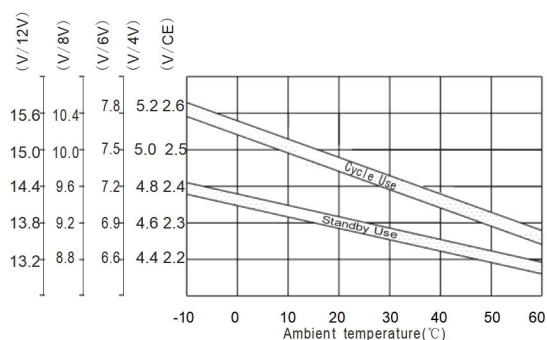
### Discharge characteristic Curve



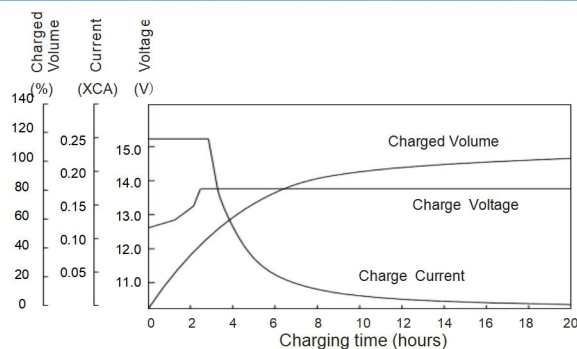
### Cycleservice life in relation to depth of discharge



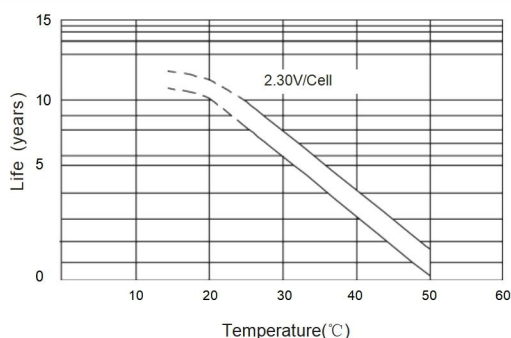
### Relationship between charging voltage and temperature



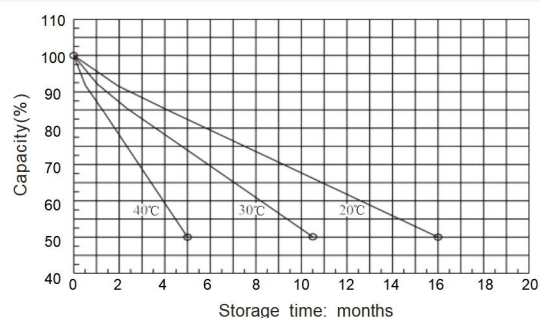
### Constant voltage charging characteristic (0.25CA, at 25 °C)



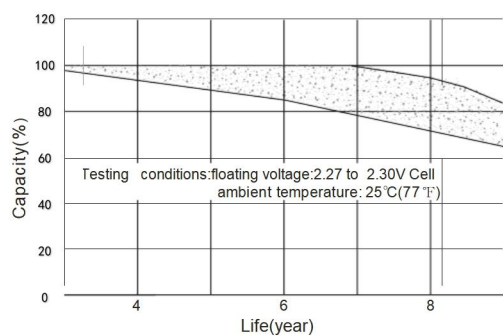
### Temperature effects on float life



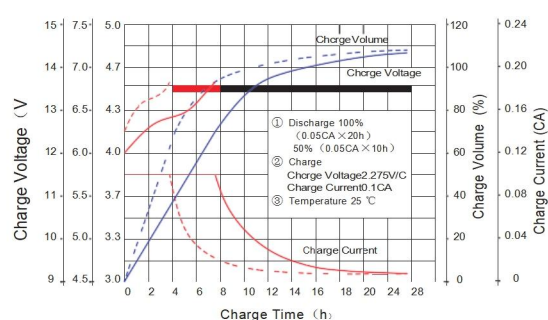
### Self-discharge characteristic



### Life characteristics of standby use



### Charge characteristic Curve for standby use



● **Storage and transportation:**

- The storage battery must be fully charged.
- The battery should be stored in a low temperature, dry, clean, and well-ventilated environment.
- Avoid heat sources and direct sunlight.
- During the transportation of the battery, it is strictly forbidden to turn it upside down, or to carry it violently (causing the battery shell to break).
- Prolonged exposure to sunlight is strictly prohibited.
- It is strictly forbidden to get the packing box wet by rain.

● **Maintenance:**

- If the battery is stored for more than 3 to 6 months, it needs to be recharged once. For the battery that loses electricity due to various reasons during use, it should be charged in time to prevent the performance degradation caused by the sulfation of the battery.
- Check the vent on the top cover of the battery frequently to prevent it from being blocked by dust, ice water, etc., to prevent the shell from deforming and exploding.
- When the battery or the vehicle is not used for a long time, the battery should be fully charged before storage, otherwise the service life of the battery will be affected.

● **Precautions:**

- This battery is a lead-acid battery, which is highly corrosive. Keep away from children. Users should wear protective eyes and rubber gloves when handling the battery. Once the eyes, skin and clothes are splashed with sulfuric acid, rinse immediately with plenty of water. Seek medical attention immediately.
- The battery should be kept away from heat sources and open flames, and should be ventilated during charging and use, and be careful not to explode and injure people.
- When installing the battery, do not use metal tools to connect the positive and negative terminals, otherwise it will cause a short circuit, causing fire or explosion.
- When the battery is charged, please turn off the charging power supply first, and then remove the connection line between the charger and the battery, to prevent explosions and injuries.