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.

General Features

- * Heavy Duty Grid
- Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-frée
- * Long Life and low self-discharge design

- * Power tools
- * Alarm system
- * Marine équipment
- * Medical equipment
- * Fire and Security System



Construction

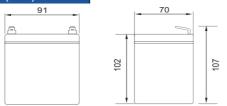
* Positive * Negative Lead dioxide Lead * Electrolyte * Safety Valve Sulfuric acid **EPDR** * Terminal * Separator Fiber glass Copper

* Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)

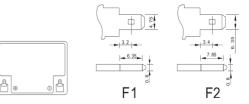
Specification

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Battery Model	Nominal	Voltage	12V					
	Rated capacity	(20 Hour rate)	4Ah					
	Cells Per	battery	6					
Dimension	Length	Width	Height	Total Height				
Dimension	91mm (5.94inches)	91mm (5.94inches) 70mm (2.56inches) 102mm (3.7inches)		107mm (3.94inches)				
Approx Weight	1.25kg ± 3%							
Capacity @ 25 °C	20 hour rate(0.22A,10.5V)	10 hour rate(0.42A,10.5V)	5 hour rate(0.719A,10.5V)	1 hour rate(2.21A,9.6V)				
(77°F)	4.4Ah	4.2Ah	3.61Ah	2.21Ah				
Max.discharge current	40A (5Sec.)							
Internal Resistance	Full charged at $25^{\circ}\mathrm{C}(77^{\circ}\mathrm{F})$: Approx $56\mathrm{m}\Omega$							
Capacity affected by	40°C (104°F)	25 ℃ (77 ℉)	0°C (32°F)	-15℃ (5℉)				
Temp.(10HR)	102%	100%	85%	65%				
Self Discharge @25℃(77℉)	After 3 mon	ths 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 chargin	g current less than 1.2A)	13.50-13.80V					

Outer dimension (mm)



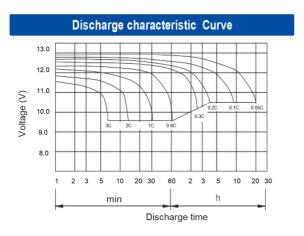
Terminal Type (mm)

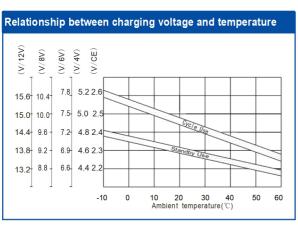


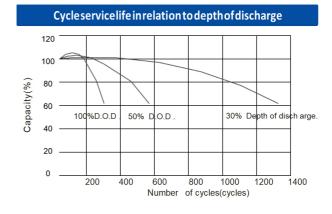
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃ (77℉)

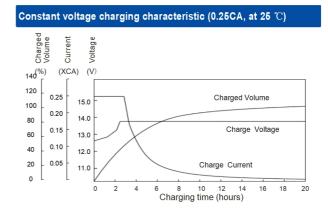
Α	F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
	1.60V	14.280	18.879	6.890	4.030	2.210	1.617	1.495	1.065	0.727	0.535	0.436	0.242
	1.67V	12.678	17.618	6.532	3.944	2.194	1.601	1.488	1.059	0.723	0.531	0.429	0.230
	1.70V	12.001	16.988	6.371	3.909	2.178	1.600	1.484	1.057	0.723	0.525	0.424	0.224
	1.75V	10.861	15.986	6.103	3.841	2.146	1.579	1.474	1.050	0.719	0.524	0.420	0.220
	1.80V	9.704	14.911	5.852	3.754	2.130	1.568	1.465	1.044	0.717	0.519	0.413	0.213
	1.85V	8.547	13.835	5.548	3.651	2.098	1.550	1.452	1.035	0.713	0.513	0.406	0.205
W	F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
	1.60V	26.411	36.040	13.298	8.028	4.409	3.230	2.991	2.131	1.454	1.071	0.872	0.484
	1.67V	23.444	33.629	12.617	7.860	4.377	3.198	2.979	2.123	1.449	1.064	0.860	0.460
	1.70V	22.198	32.446	12.315	7.792	4.351	3.196	2.973	2.119	1.449	1.054	0.850	0.448
	1.75V	20.091	30.540	11.808	7.660	4.297	3.158	2.953	2.106	1.442	1.052	0.843	0.442
	1.80V	17.954	28.496	11.341	7.492	4.271	3.143	2.935	2.096	1.438	1.043	0.830	0.427
	1.85V	15.817	26.452	10.763	7.291	4.213	3.116	2.910	2.080	1.432	1.031	0.817	0.413

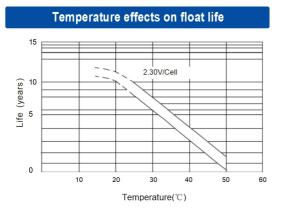


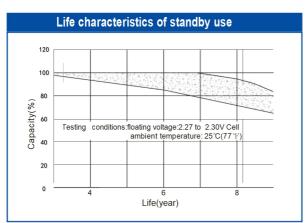


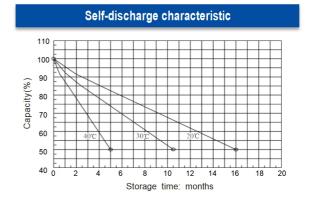


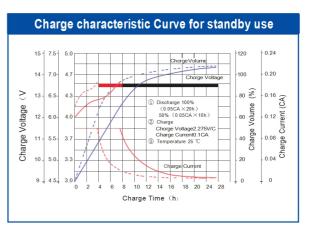












Storage and transportation:

- > 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.