JYC BATTERY MANUFACTURER CO.,LTD.

GP12-6 (6V12Ah)

General Series Battery

JYC General (GP) Series VRLA batteries are designed withAGM (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℃ 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

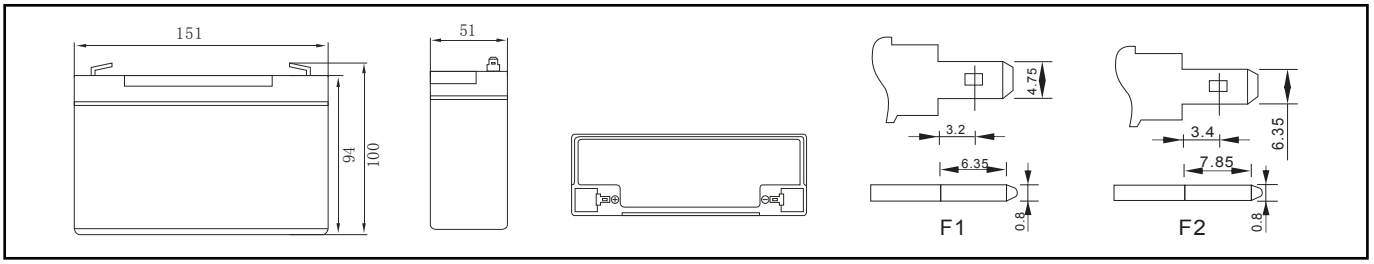
Construction

* 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		6V	
	Rated capacity (20 Hour rate)		12Ah	
	Cells Per battery		3	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	51mm (2.00 inches)	94mm (3.70 inches)	100mm (3.94 inches)
Approx Weight	1.67kg(3.68lbs) ± 3%			
Capacity @ 25˚C (77 ˚F)	20 hour rate(0.68A,5.25V)	10 hour rate(1.271A,5.4V)	5 hour rate(2.142A,5.25V)	1 hour rate(7.2A,4.8V)
	13.6Ah	12.71Ah	10.71Ah	7.2Ah
Max.discharge current	180A (5 Sec.)			
Internal Resistance	Full charged at 25˚C (77˚F) : Approx 9.0mΩ			
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	
	7.25-7.50V (Initial charging current less than 3.6A)		6.75-6.90V	

Outer dimension (mm)



Terminal Type (mm)

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

F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	39.660	52.434	22.100	13.910	7.200	5.270	4.456	3.174	2.166	1.646	1.341	0.747
	73.353	100.094	42.653	27.709	14.364	10.522	8.916	6.351	4.335	3.294	2.682	1.495
1.67V	35.209	48.931	20.952	13.613	7.148	5.217	4.434	3.158	2.154	1.632	1.320	0.710
	65.111	93.398	40.469	27.130	14.261	10.420	8.879	6.330	4.318	3.273	2.646	1.423
1.70V	33.330	47.180	20.435	13.494	7.096	5.212	4.423	3.150	2.154	1.616	1.303	0.691
	61.649	90.114	39.501	26.894	14.174	10.414	8.861	6.315	4.319	3.242	2.614	1.386
1.75V	30.165	44.399	19.574	13.256	6.991	5.144	4.395	3.130	2.142	1.612	1.292	0.680
	55.798	84.820	37.876	26.440	14.000	10.289	8.804	6.279	4.298	3.235	2.594	1.365
1.80V	26.951	41.411	18.771	12.959	6.939	5.108	4.368	3.113	2.137	1.598	1.271	0.658
	49.863	79.142	36.378	25.858	13.913	10.241	8.750	6.248	4.288	3.210	2.554	1.321
1.85V	23.737	38.424	17.795	12.602	6.835	5.050	4.329	3.086	2.125	1.577	1.250	0.635
	43.929	73.465	34.522	25.165	13.724	10.151	8.676	6.199	4.268	3.171	2.514	1.277

Note: The above datas are average values. (Edition 2020-05)

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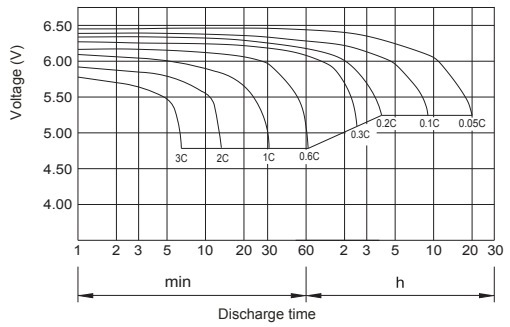
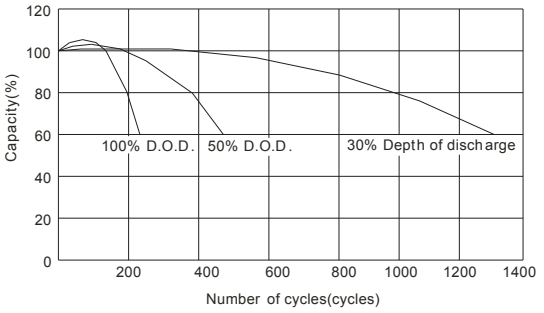
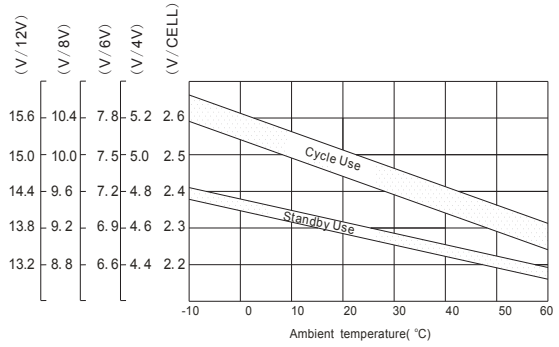
Discharge characteristic Curve



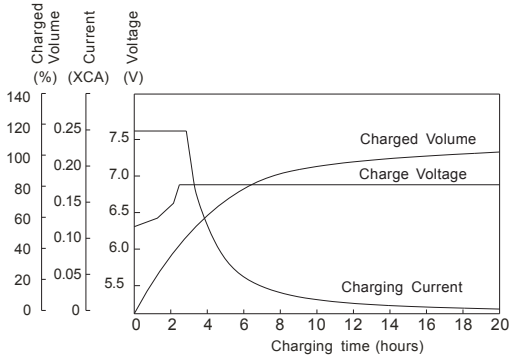
Cycle service life in relation to depth of discharge



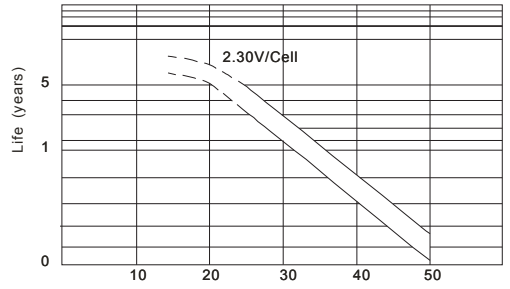
Relationship between charging voltage and temperature



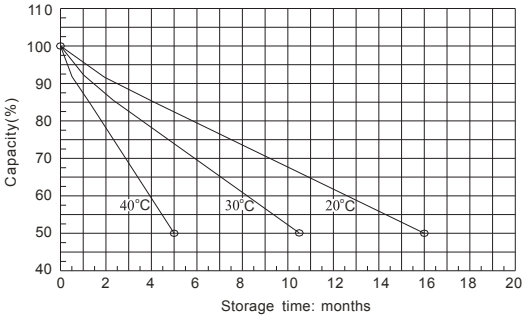
Constant voltage charging characteristic (0.25CA, at 25℃)



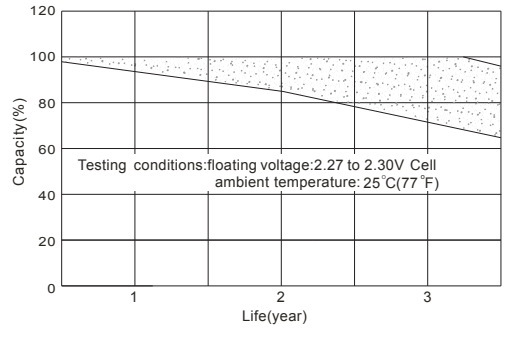
Temperature effects on float life



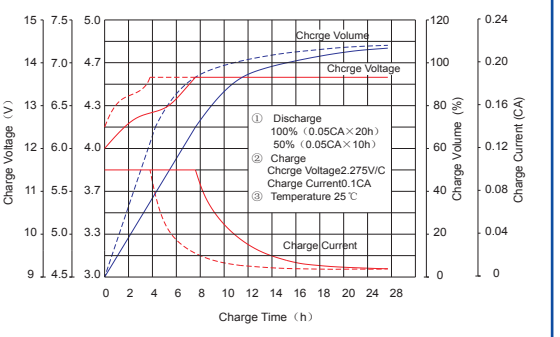
Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use



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