ReFortis

GP6.2-12 (12V6.2Ah)

General Series Battery

ReFortis 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

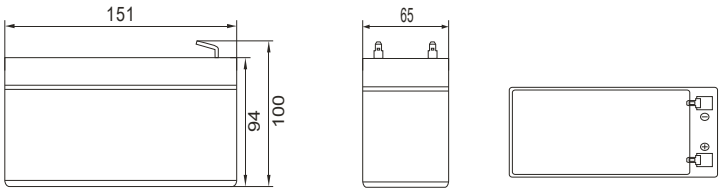
Construction

* 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

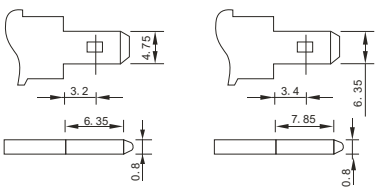
Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		6.2Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.7 inches)	100mm (3.94 inches)
Approx Weight	1.8kg(3.96lbs) ± 3%			
Capacity @ 25℃ (77 °F)	20 hour rate(0.31A,10.5V)	10 hour rate(0.59A,10.8V)	5 hour rate(1.02A,10.5V)	1 hour rate(2.97A,9.6V)
	6.2Ah	5.9Ah	5.1Ah	2.97Ah
Max.discharge current	105A (5 Sec.)			
Internal Resistance	Full charged at 25℃(77 °F): Approx 59mΩ			
Capacity affected by Temp.(20 HR)	40℃ (104°F)	25℃ (77°F)	0℃ (32°F)	-15℃ (5°F)
	102%	100%	85%	65%
Self Discharge @25℃ (77 °F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @25℃ (77 °F)	Cycle Use		Float Use	
	14.40-14.70V (Initial charging current less than 1.86A)		13.50-13.80V	

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	21.500	12.692	9.600	5.500	2.970	2.174	2.141	1.525	1.041	0.776	0.632	0.346
	39.765	24.229	18.528	10.956	5.925	4.340	4.284	3.052	2.083	1.553	1.264	0.693
1.67V	19.087	11.844	9.101	5.382	2.948	2.152	2.131	1.517	1.035	0.769	0.622	0.329
	35.297	22.608	17.579	10.727	5.883	4.298	4.267	3.041	2.075	1.543	1.247	0.659
1.70V	18.069	11.420	8.877	5.335	2.927	2.150	2.125	1.513	1.035	0.762	0.614	0.320
	33.421	21.813	17.159	10.634	5.847	4.296	4.258	3.035	2.075	1.528	1.232	0.642
1.75V	16.353	10.747	8.503	5.241	2.884	2.122	2.112	1.504	1.029	0.760	0.609	0.315
	30.248	20.531	16.453	10.454	5.775	4.244	4.230	3.017	2.065	1.525	1.223	0.632
1.80V	14.610	10.024	8.154	5.124	2.862	2.107	2.099	1.496	1.027	0.753	0.599	0.305
	27.031	19.157	15.802	10.224	5.739	4.224	4.204	3.002	2.060	1.513	1.204	0.612
1.85V	12.868	9.301	7.730	4.983	2.819	2.083	2.080	1.483	1.021	0.743	0.589	0.294
	23.814	17.783	14.996	9.950	5.661	4.187	4.169	2.979	2.051	1.495	1.185	0.592

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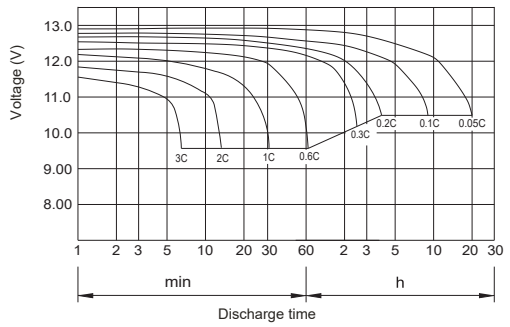
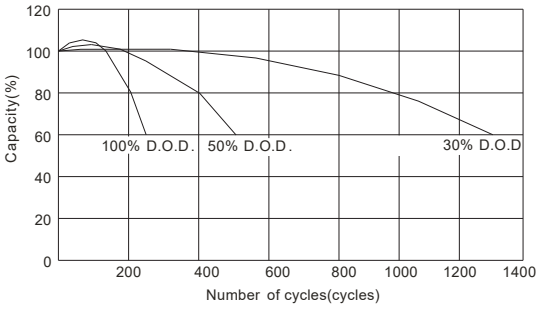
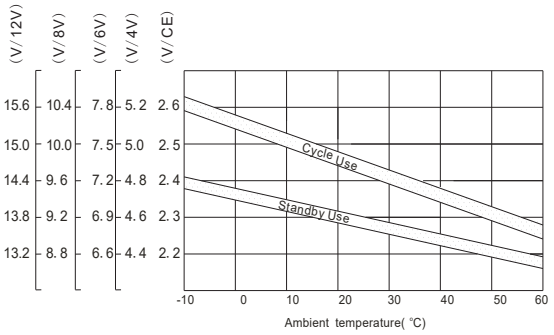
Discharge characteristic Curve



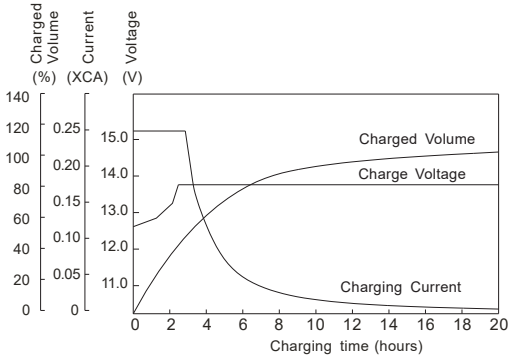
Cycle service life in relation to depth of discharge



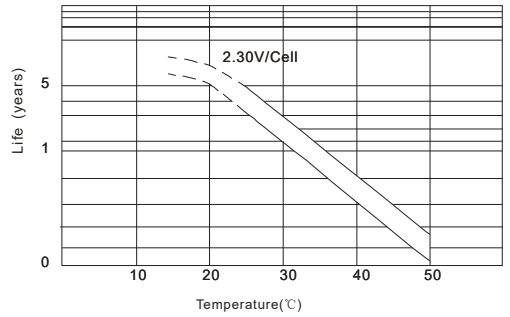
Relationship between charging voltage and temperature



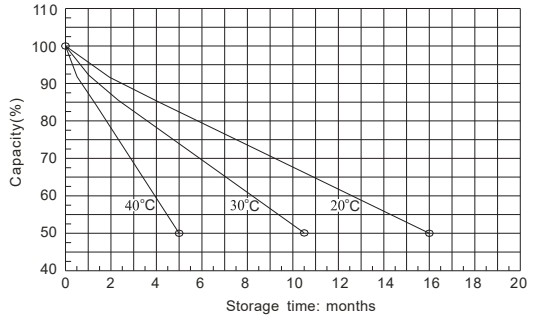
Constant voltage charging characteristic (0.25CA, at 25℃)



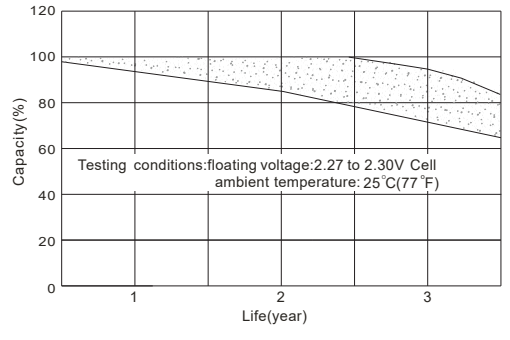
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use