

General Series Battery

ReFortis 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

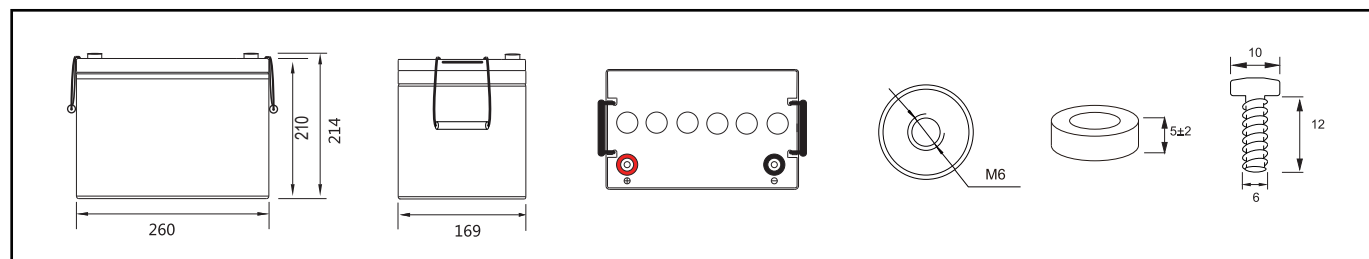
Construction

- * 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

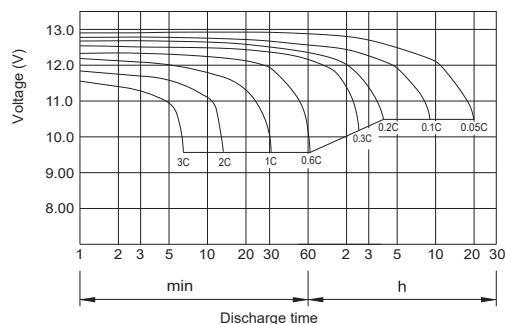
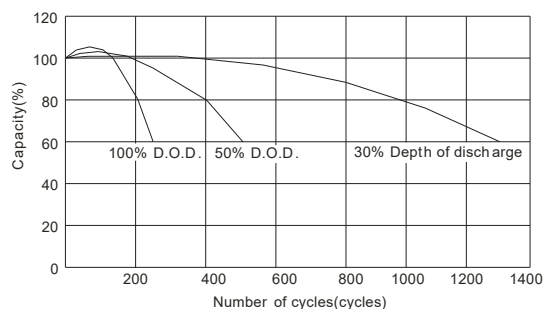
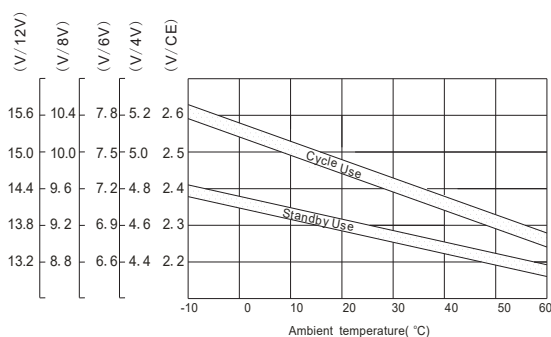
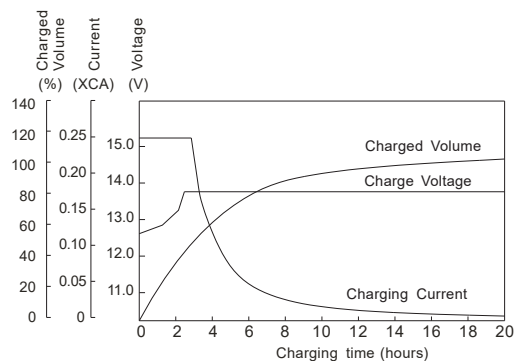
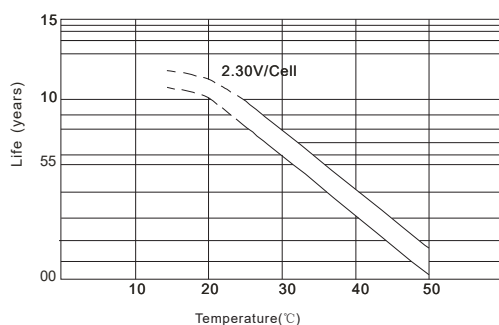
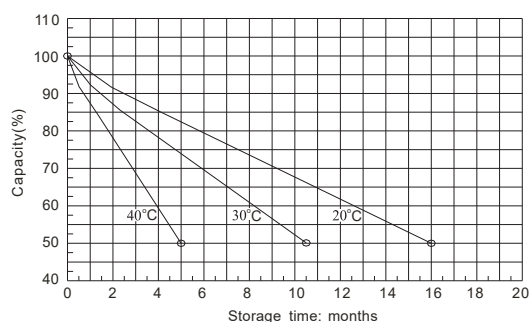
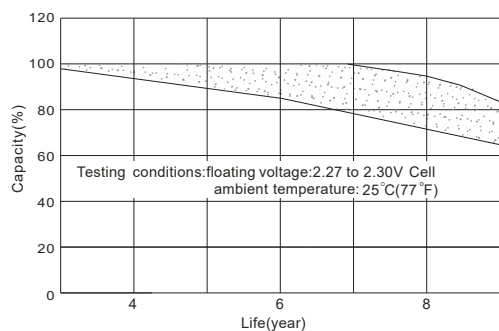
Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		80Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	260mm (10.24 inches)	169mm (6.65 inches)	210mm (8.26 inches)	214mm (8.42 inches)
Approx Weight	20.8kg (45.85lbs) ± 3%			
Capacity @ 25°C (77°F)	10 hour rate (7.5A, 10.5V)	5 hour rate (14.23A, 10.5V)	3 hour rate (20.68A, 10.8V)	1 hour rate (41.6A, 9.6V)
	80Ah	71.15Ah	62.04Ah	41.6Ah
Max. discharge current	800A (5 Sec.)			
Internal Resistance	Full charged at 25°C (77°F) : Approx 5.8mΩ			
Capacity affected by Temp. (10 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	
	14.40-14.70V (Initial charging current less than 24A)		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
1.60V	136.000	81.000	41.600	30.446	29.614	21.095	14.396	10.194	8.301	4.527
	262.480	161.352	82.992	60.792	59.253	42.208	28.804	20.396	16.609	9.059
1.67V	128.935	79.269	41.299	30.145	29.467	20.984	14.317	10.108	8.172	4.301
	249.039	157.984	82.396	60.205	59.007	42.062	28.697	20.266	16.385	8.624
1.70V	125.756	78.577	40.997	30.115	29.393	20.931	14.313	10.006	8.069	4.186
	243.086	156.609	81.894	60.169	58.884	41.967	28.698	20.073	16.186	8.398
1.75V	120.457	77.192	40.394	29.723	29.209	20.800	14.238	9.978	8.000	4.120
	233.085	153.961	80.889	59.446	58.505	41.725	28.561	20.032	16.060	8.271
1.80V	115.512	75.462	40.093	29.512	29.024	20.689	14.198	9.892	7.871	3.984
	223.862	150.577	80.386	59.171	58.147	41.524	28.495	19.874	15.813	8.004
1.85V	109.506	73.385	39.490	29.180	28.766	20.505	14.119	9.763	7.742	3.848
	212.443	146.538	79.296	58.652	57.655	41.194	28.364	19.634	15.569	7.739

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
