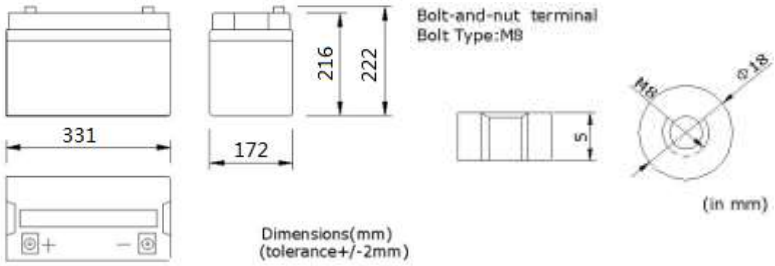
Security

110Ah 12V Gel Battery

PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (10HR)		12V 110Ah
Dimension	Length Width Container Height Total Height	331±2mm （13.03 inches） 172±2mm (6.77 inches) 216±2mm (8.50 inches) 222±2mm (8.74 inches)
Weight		Approx. 32.5 Kg ±3% (71.65lbs)
Standard Terminal		B3(Bolt and Nut terminal) Bolt Type: M8

Nova Code: **BAT-315**



Gel Batteries are manufactured with special separators and silica gel immobilizing the electrolyte inside the Battery. It is perfect for frequent cyclic deep discharge or standby applications under harsh environments, and has a long service life.

FEATURES:

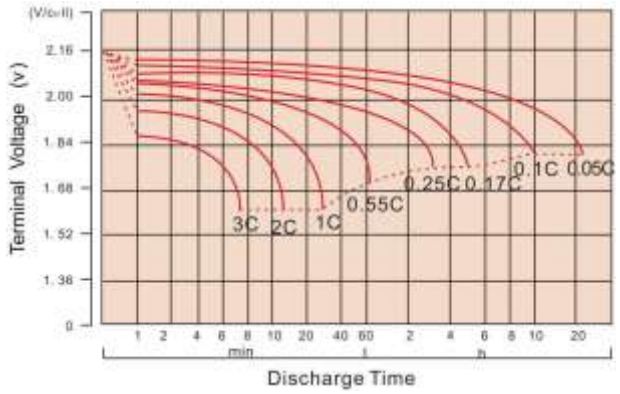
1.Special polar plate design which ensures a designed floating charge life of 15 years at 25℃(77 ⁰F)
2.Equalized current distribution - the active material is not easy to fall off
3.High gas recombination efficiency
4.Good deep discharge resilience performance
5.No delamination phenomena in the electrolyte
6.Manufactured with high porosity

ELECTRICAL SPECIFICATION

Characteristics

Capacity		10 hour rate (10A) 5 hour rate (17A) 3 hour rate (25A) 1 hour rate (55A)	110Ah 93.5Ah 82.5Ah 60.5Ah
Capacity affected by Temperature		40℃ （104 ⁰F） 25℃ （77 ⁰F） 0℃ （32 ⁰F）	102% 100% 85%
Max Discharge Current		1100A(5 Sec)	
Short Circuit Current		2185A	
Internal Resistance		Full charged battery (25℃,77 ⁰F) 6.0mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 27.5A Voltage 14.1~14.4V at 25℃ (77 ⁰F) Temperature Coefficient –30mV/℃	
	Standby	No limit on Initial Charging Current Voltage 13.5~13.8V at 25℃ (77 ⁰F) Temperature Coefficient – 20mV/℃	

Discharge curves @ 25°C(77 °F)



CONSTANT CURRENT DISCHARGE RATING A @25°C									
F.V/TIME	**10MIN**	**15MIN**	**30MIN**	**1HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	264.4	199.1	118.9	68.2	31.1	20.8	14.0	11.7	6.06
1.65V	240.8	190.3	114.3	65.7	30.1	20.2	13.8	11.4	5.98
1.70V	218.8	178.3	109.5	63.1	29.4	19.7	13.6	11.3	5.90
1.75V	199.9	165.9	104.2	60.5	28.4	19.3	13.4	11.1	5.83
1.80V	181.5	153.1	99.7	58.3	27.5	18.7	13.2	11.0	5.78
CONSTANT POWER DISCHARGE RATING WATT PER CELL @25°C									
F.V/TIME	**10MIN**	**15MIN**	**30MIN**	**1HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	437.5	348.2	216.0	128.3	59.4	40.3	27.5	23.0	11.9
1.65V	417.3	337.7	209.9	124.1	57.9	39.2	27.1	22.7	11.8
1.70V	386.1	321.0	202.8	120.0	56.4	38.3	26.6	22.3	11.7
1.75V	358.9	303.1	195.0	115.7	55.1	37.4	26.3	22.0	11.6
1.80V	331.7	283.8	188.5	112.2	53.4	36.5	26.1	21.7	11.4