



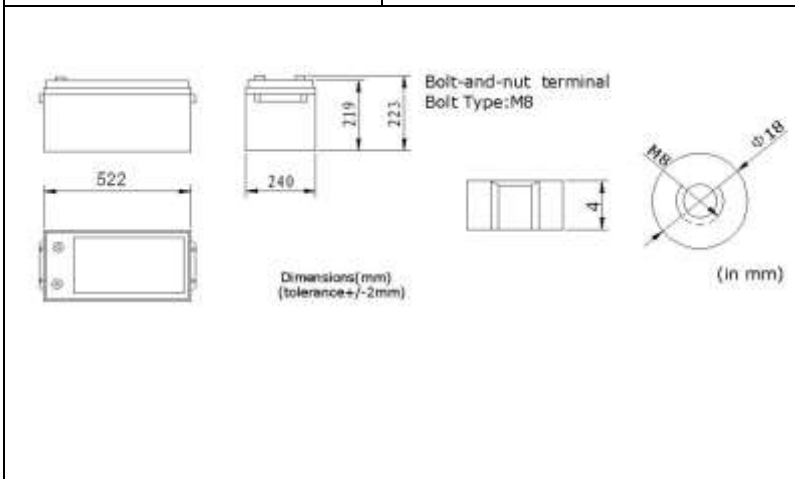
220Ah 12V Gel Battery

PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (10HR)		220Ah
Dimension	Length	522±2mm (20.55 inches)
	Width	240±2mm (9.45 inches)
	Container Height	219±2mm (8.62 inches)
	Total Height	223±2mm (8.78 inches)
Weight		Approx. 63.5Kg (139.99lbs)
Standard Terminal		Bolt and Nut terminal Bolt Type: M8



Nova Code: **BAT-317**



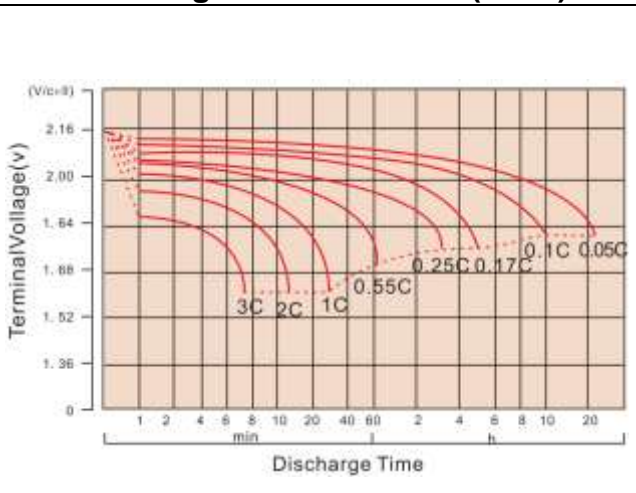
Gel Batteries are manufactured with special separators and silica gel immobilizing the electrolyte inside the Battery. It is perfect for frequent cyclic deep discharge or standby applications under harsh environments, and has a long service life.

FEATURES:

1. Special polar plate design which ensures a designed floating charge life of 15 years at 25°C (77 °F)
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		Discharge curves @ 25°C (77 °F)
Capacity	10 hour rate (20A)	220Ah
	5 hour rate (34A)	187Ah
	3 hour rate (50A)	165Ah
	1 hour rate (120A)	132Ah
Capacity affected by temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Max Discharge Current	2200A (5 Sec)	
Short Circuit Current	3600A	
Internal Resistance	Full charged battery (25°C, 77 °F) 4mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 55A Voltage 14.1~14.4V at 25°C (77 °F) Temperature Coefficient -30mV/°C
	Standby	No limit on Initial Charging Current Voltage 13.5~13.8V at 25°C (77 °F) Temperature Coefficient -20mV/°C



CONSTANT CURRENT DISCHARGE RATING A @25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	524.8	387.3	238.4	136.4	62.3	41.7	27.9	23.3	12.1
1.65V	482.6	370.3	228.8	131.2	60.3	40.5	27.6	23.0	12.0
1.70V	444.4	346.8	218.8	126.3	58.6	39.5	27.2	22.6	11.8
1.75V	406.8	323.0	209.0	121.0	56.9	38.5	26.8	22.3	11.7
1.80V	368.3	298.1	200.0	116.7	55.0	37.4	26.4	22.0	11.6

CONSTANT POWER DISCHARGE RATING WATT PER CELL @25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	868.3	677.3	437.5	256.5	118.8	80.4	55.0	46.0	23.9
1.65V	836.4	657.0	424.3	248.2	115.7	78.3	54.0	45.2	23.5
1.70V	784.2	624.5	409.6	240.1	113.0	76.6	53.4	44.7	23.2
1.75V	730.7	589.9	395.7	231.6	110.2	74.9	52.7	44.0	23.1
1.80V	672.9	552.4	381.9	224.4	106.8	73.2	52.0	43.2	22.9