



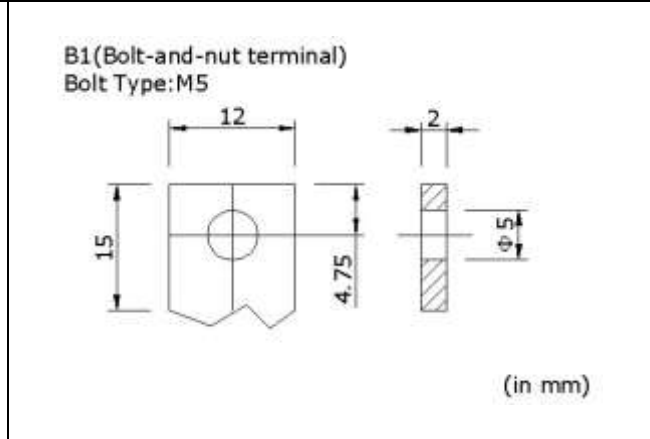
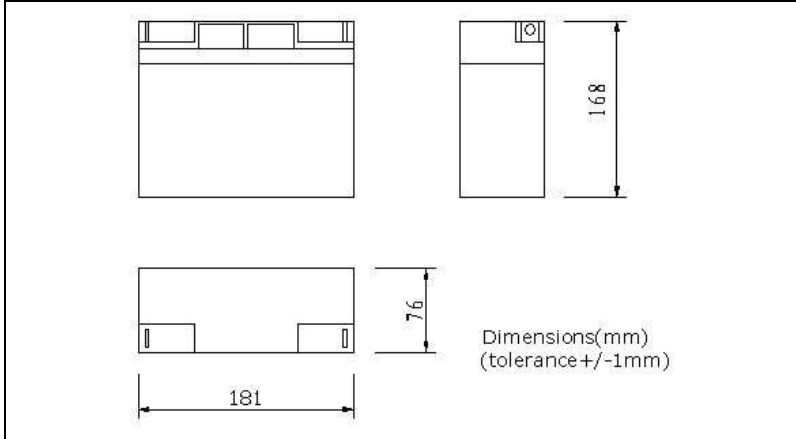
18Ah 12V Gel Battery

PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (20hr)		18Ah
Dimension	Length	181±1mm (7.13 inches)
	Width	76±1mm (2.99 inches)
	Container Height	168±1mm (6.61 inches)
	Total Height	168±1mm (6.61 inches)
Weight		Approx. 5.1kg (11.2lbs)
Standard Terminal		Bolt & Nuts Terminal Bolt Type: M5

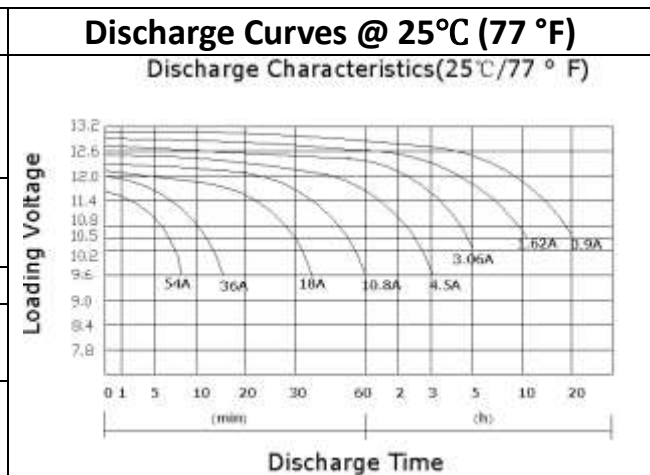


Nova Code: **BAT-302**



ELECTRICAL SPECIFICATION

Characteristics		
Capacity	20 hour rate (0.9A)	18Ah
	10 hour rate (1.62A)	17.1Ah
	5 hour rate (3.06A)	15.3Ah
	3 hour rate (4.5A)	13.5Ah
	1 hour rate (10.8A)	10.8Ah
Capacity affected by Temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Internal Resistance		Fully charged Battery (25°C - 77 °F) 15mΩ
Constant Voltage Charge	Cycle	Initial charging current less than 5.4A Voltage 14.4 - 15V 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



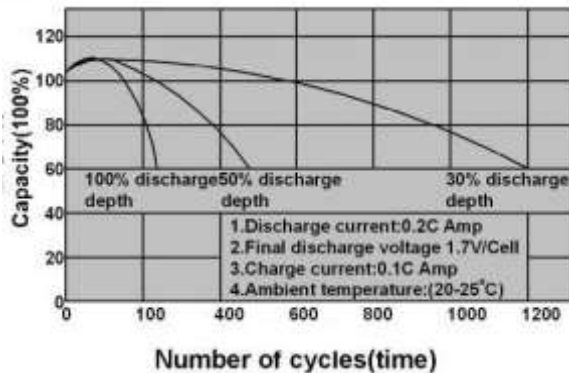
CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	65.3	40.7	30.6	18.7	12.0	5.22	3.19	1.73	0.92
1.67V	61.2	38.5	29.5	17.9	11.8	5.02	3.11	1.69	0.90
1.70V	56.0	37.1	28.8	16.2	11.4	4.68	3.06	1.67	0.90
1.75V	55.1	36.0	27.7	15.5	10.9	4.52	2.99	1.65	0.88
1.80V	49.3	34.4	25.3	14.3	10.2	4.35	2.81	1.63	0.85

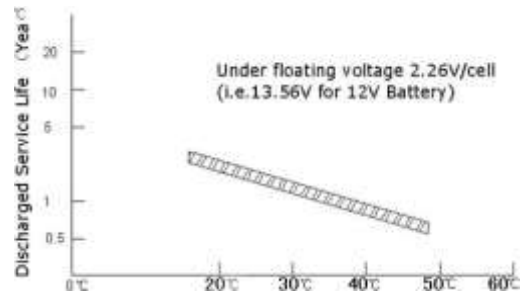
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	114	73.3	56.1	33.7	21.4	9.26	5.40	3.35	1.88
1.67V	111	71.5	55.3	32.9	21.3	8.95	5.34	3.32	1.80
1.70V	104	70.7	54.8	30.9	20.9	8.56	5.30	3.30	1.77
1.75V	97.2	70.5	54.3	29.8	20.5	8.36	5.25	3.26	1.75
1.80V	95.9	69.4	50.4	28.5	19.4	8.10	5.09	3.23	1.70

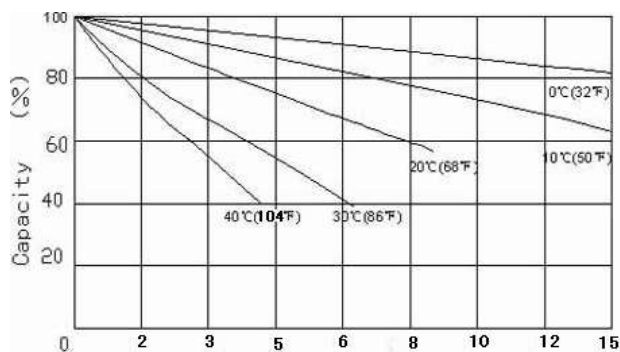
Cycle Service Life



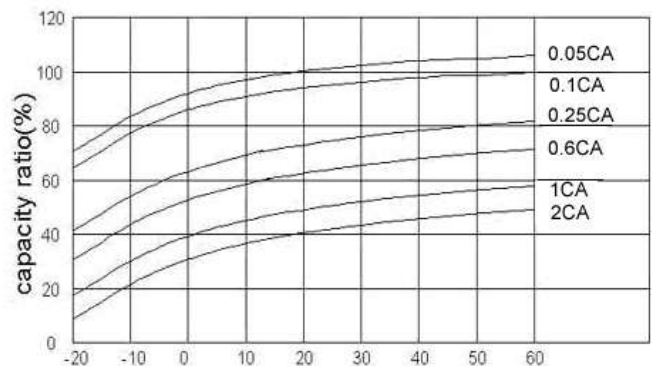
Trickle (or Float) Service Life



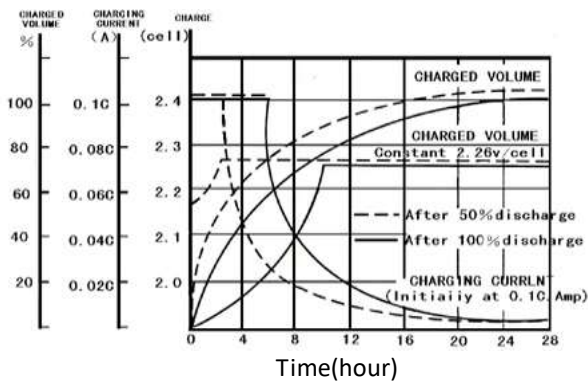
Storage Time (months)



Temperature and Discharge Capacity



Charging Characteristic



Storage Temperature

Supplementary Charge Interval

Charge Method

≤20°C

Every 12 months

Less or 24 hours with a constant voltage of 2.3V/cell

20-30°C

Every 8 months

12-18 hours with a constant voltage of 2.45V/cell

≥30°C

Storage to be avoided

8-12 hours with a constant current of 0.05CA