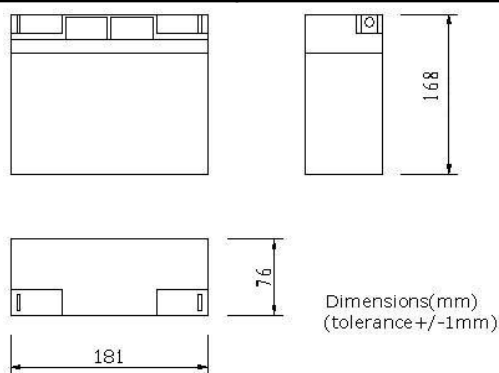


Lightwave

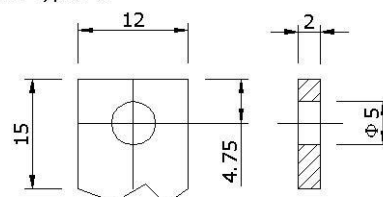
LW 18Ah

PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (20HR)		12V 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. 5.05Kg(11.1lbs) ± 5%
Standard Terminal		Bolt & nuts terminal Bolt Type:M5



B1(Bolt-and-nut terminal)
Bolt Type:M5

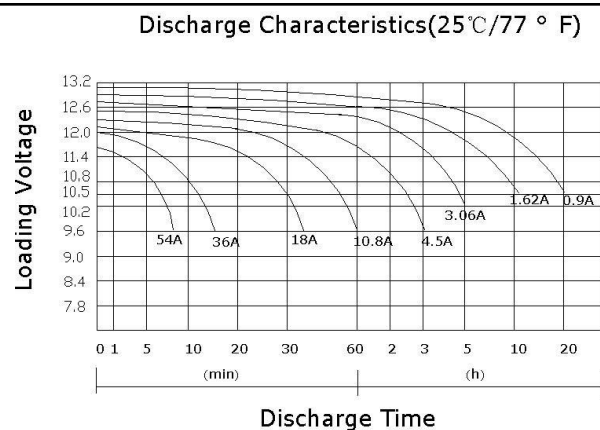


(in mm)

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
	1hour 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		Full charged battery (25°C,77 °F) 15mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 3.6A Voltage 14.4~15.0V 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	

Discharge curves @ 25°C (77 °F)



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	1.78	0.92
1.67V	61.2	38.5	29.5	17.9	11.8	5.02	3.11	1.78	0.90
1.70V	56.0	37.1	28.8	16.2	11.4	4.68	3.06	1.75	0.90
1.75V	55.1	36.0	27.7	15.5	10.9	4.52	2.99	1.73	0.88
1.80V	49.3	34.4	25.3	14.3	10.2	4.35	2.81	1.73	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	5.37	3.57	1.88
1.67V	111	71.5	55.3	32.9	21.3	8.95	5.37	3.55	1.80
1.70V	104	70.7	54.8	30.9	20.9	8.56	5.30	3.52	1.77

1.75V	97.2	70.5	54.3	29.8	20.5	8.36	5.25	3.47	1.75
1.80V	95.9	69.4	50.4	28.5	19.4	8.10	5.09	3.42	1.70