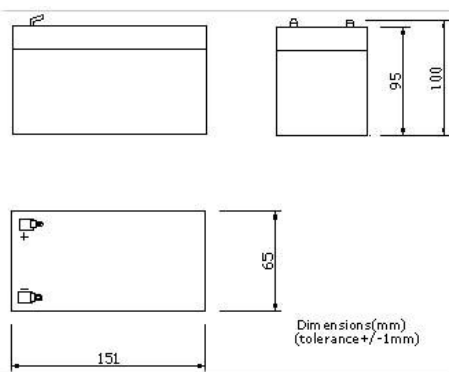


Lightwave

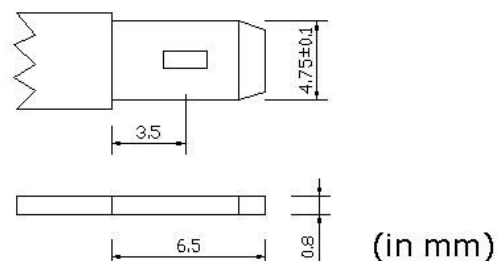
LW 9Ah

PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (20HR)		12V 9Ah
Dimension	Length	151±1mm (5.94 inches)
	Width	65±1mm (2.56 inches)
	Container Height	95±1mm (3.74 inches)
	Total Height	100±1mm (3.94 inches)
Weight		Approx. 2.35 Kg(5.18lbs) ±5%
Standard Terminal		Fasten Tab No.187E



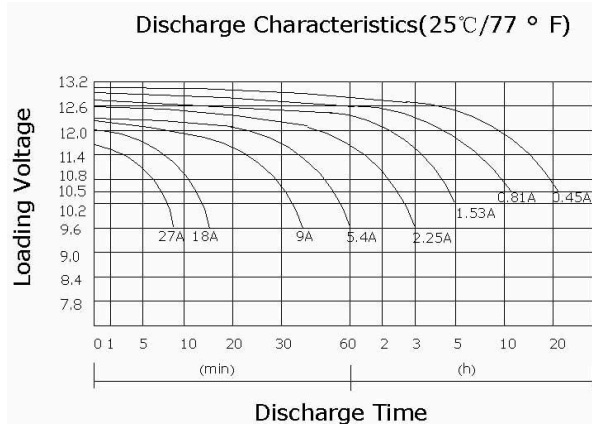
F1(Fasten Tab No.187E)
Standard Terminal



ELECTRICAL SPECIFICATION

Characteristics		
Capacity	20 hour rate	(0.45A) 9Ah
	10 hour rate	(0.81A) 8.5Ah
	5 hour rate	(1.53A) 7.7Ah
	3 hour rate	(2.25A) 6.8Ah
	1hour rate	(5.4A) 5.4Ah
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) 20mΩ
Constant Voltage Charge	Cycle	Initial Charging Current less than 2.7A 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	32.7	20.3	15.3	9.35	5.95	2.61	1.59	0.89	0.46
1.67V	30.6	19.3	14.8	8.94	5.86	2.51	1.56	0.89	0.45
1.70V	28.0	18.5	14.4	8.13	5.68	2.34	1.53	0.87	0.45
1.75V	27.5	18.0	13.9	7.71	5.41	2.26	1.49	0.86	0.44
1.80V	24.7	17.2	12.7	7.15	5.07	2.17	1.40	0.86	0.42

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	57.2	36.6	28.0	16.8	10.7	4.63	2.69	1.79	0.94
1.67V	55.3	35.7	27.6	16.5	10.7	4.47	2.69	1.77	0.90
1.70V	52.1	35.4	27.4	15.4	10.5	4.28	2.65	1.76	0.89

1.75V	48.6	35.2	27.1	14.9	10.3	4.18	2.62	1.74	0.87
1.80V	48.0	34.7	25.2	14.3	9.68	4.05	2.55	1.71	0.85