

### 12SB25WHR 12Volt 25WHR

#### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

15 min rate (151W to 9.60V)	<b>25.2Wh</b>
20 hour rate (0.25A to 10.50V)	<b>5Ah</b>
10 hour rate (0.475A to 10.50V)	<b>4.75Ah</b>
5 hour rate (0.85A to 10.20V)	<b>4.25Ah</b>
1 C (5A to 9.60V)	<b>3.17Ah</b>
3 C (15A to 9.60V)	<b>2Ah</b>

Weight **Approx. 2kg(4.4Lbs.)**

Internal Resistance (at 1KHz) **Approx. 15 mΩ**

#### Maximum Discharge Current for

5 seconds: **75A**

#### Charging Methods at 25 (77 )

##### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **1.5A**

##### Standby use:

Float Charging Voltage **13.50 to 13.80V**

Coefficient -3.0mv/ /cell

#### Operating Temperature Range

Charge **-15 (5 ) to 40 (104 )**

Discharge **-15 (5 ) to 50 (122 )**

Storage **-15 (5 ) to 40 (104 )**

#### Charge Retention (shelf life) at 20 (68 )

1 month **92%**

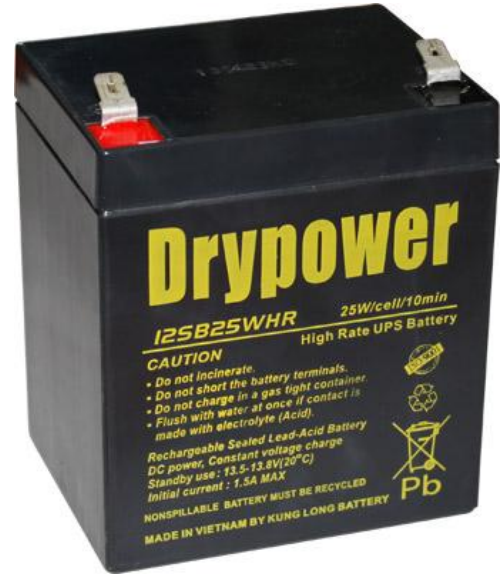
3 month **90%**

6 month **80%**

Case Material **ABS**

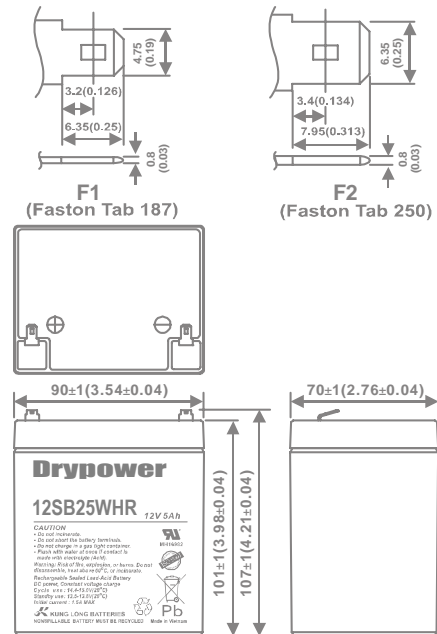
(Option: UL94 HB & UL94 V-0 flame retardant )

Terminal **F1 or F2 (Faston Tab 187 or 250)**

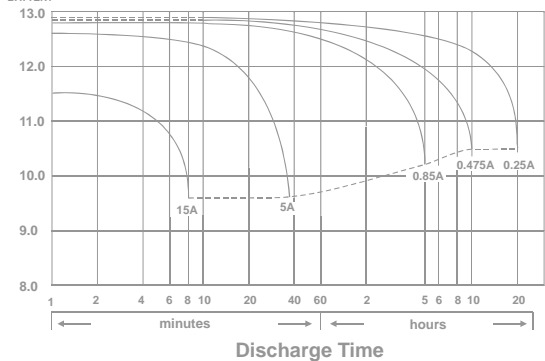


#### Dimensions

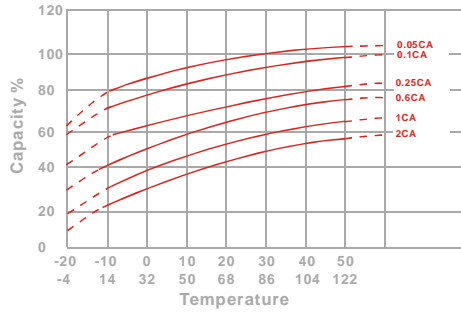
mm(inch)



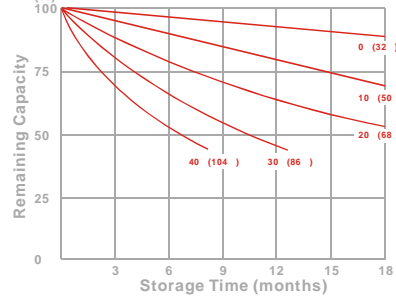
(v) Discharge Time VS. Discharge Current (25 )  
FOR 12V BATTERY



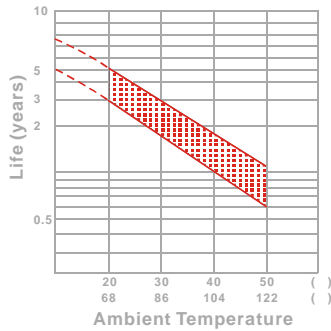
Effect of Temperature on Capacity 25 (77 )



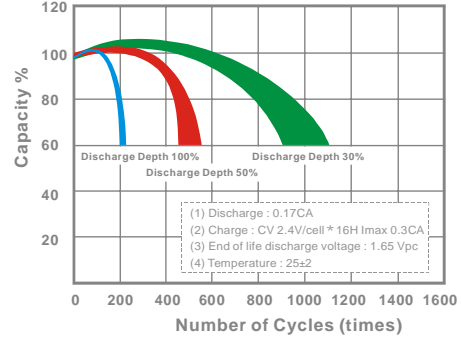
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



**- PERFORMANCE DATA**

Discharge Rates in Watts to Various End Voltages at 25 (77 )

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	223	239	257	274	281	288	296
10	min	157	170	179	187	189	193	198
15	min	133	142	146	148	149	150	151
30	min	72.0	76.4	78.5	79.9	80.4	80.8	81.5
60	min	35.8	38.7	40.2	41.6	42.3	42.9	43.7
120	min	18.9	21.8	23.1	23.9	24.2	24.6	25.2
180	min	14.6	15.9	17.1	18.2	18.6	18.9	19.5
240	min	11.8	13.1	13.8	14.2	14.4	14.6	14.9
300	min	10.6	11.3	11.9	12.2	12.3	12.4	12.6
600	min	6.13	6.61	6.97	7.11	7.16	7.22	7.31
1200	min	3.19	3.45	3.64	3.71	3.74	3.77	3.82

- Discharge Rates in Amperes to Various End Voltages at 25 (77 )

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	18.7	22.8	25.2	27.1	27.8	28.4	29.3
10	min	13.8	15.0	15.9	16.7	16.9	17.3	17.8
15	min	10.6	11.3	11.7	12.0	12.2	12.4	12.6
30	min	5.98	6.31	6.49	6.63	6.68	6.74	6.85
60	min	3.09	3.34	3.48	3.59	3.62	3.67	3.74
120	min	1.72	1.85	1.92	1.98	2.01	2.03	2.06
180	min	1.37	1.46	1.51	1.55	1.57	1.59	1.61
240	min	0.974	1.05	1.09	1.13	1.14	1.16	1.18
300	min	0.863	0.931	0.965	0.986	0.998	1.01	1.03
600	min	0.490	0.532	0.551	0.574	0.577	0.582	0.590
1200	min	0.257	0.291	0.297	0.302	0.304	0.307	0.311

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%),10min X < 60min(+8%~-8%), X 60min(+5%~-5%)