

12SB25WHR (12V 25Wh)

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

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

Weight Approx. 2kg (4.4lbs)

Internal Resistance (@1kHz) Approx. 15mΩ

Maximum Discharge Current
For 5 seconds 75A

Charging Methods @25°C (77°F)

Cycle Use:
Charging Voltage 14.4V to 15.0V
Coefficient -5.0mV/°C/Cell
Maximum Charging Current 1.5A

Standby Use:
Float Charging Voltage 13.50V to 13.80V
Coefficient -3.0mV/°C/Cell

Operating Temperature Range

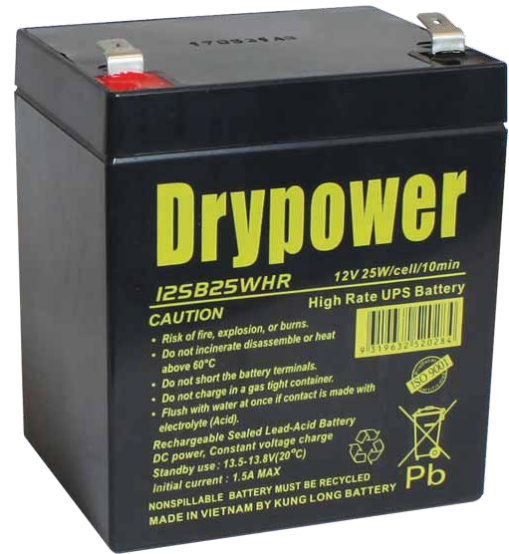
Charge	-15°C (5°F) to +40°C (104°F)
Discharge	-15°C (5°F) to +50°C (122°F)
Storage	-15°C (5°F) to +40°C (104°F)

Charge Retention (Shelf Life) @20°C (68°F)

1 month	92%
3 months	90%
6 months	80%

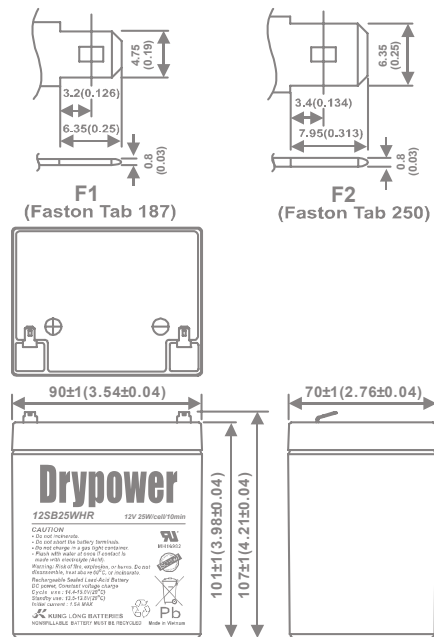
Case Material ABS

Terminal F1 or F2 (Faston Tab 187 or 250)

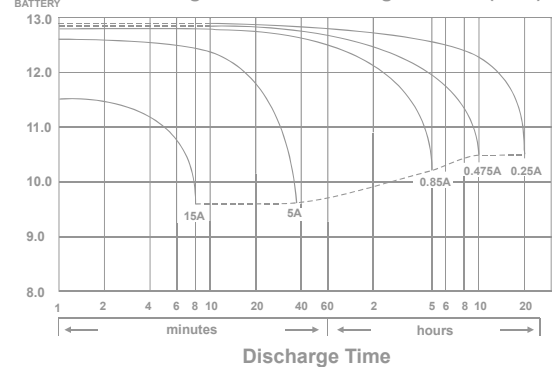


DIMENSIONS

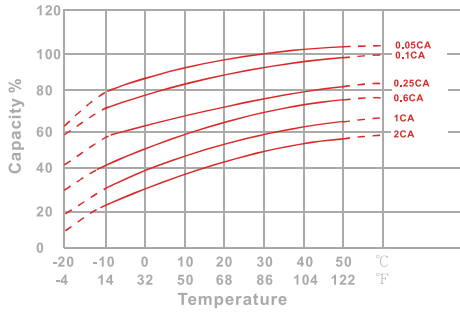
mm (inch)



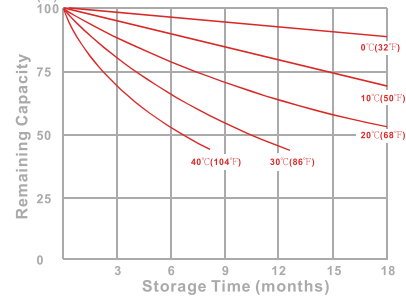
(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



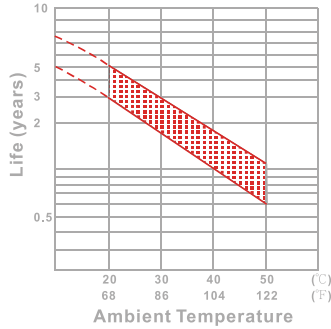
Effect of Temperature on Capacity 25°C(77°F)



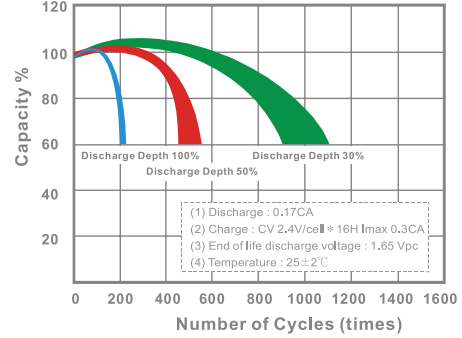
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
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°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
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 : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.