



6SB45WHR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	6V	
Nominal Power	10 min rate 45W/cell to 1.67V/cell 15 min rate 35W/cell to 1.60V/cell	
Nominal Capacity	20 hour rate (0.451A to 5.10V) 9Ah 10 hour rate (0.857A to 5.10V) 8.57Ah 5 hour rate (1.445A to 5.10V) 7.225Ah 1C (8.5A to 4.80V) 4.53Ah 3C (25.5A to 4.80V) 2.975Ah	
Weight	Approx. 1.3kg	
Internal Resistance (at 1KHz)	Approx. 7mΩ	
Maximum Discharge Current (5 secs)	127.5A	
Charge Methods at 25°C	Standby Use Float Charging Voltage 6.75V to 6.90V Coefficient -3.0mV/°C/Cell Maximum Charging Current 2.55A	
Operating Temperature Range	Charge -15°C to 40°C Discharge -15°C to 50°C Storage -15°C to 40°C	
Charge Retention (Shelf Life) at 20°C	1 month 92% 3 months 90% 6 months 80%	
Case Material	ABS UL94 HB	
Termination	F2 (Faston Tab 250)	
Design Life	3-5 years	

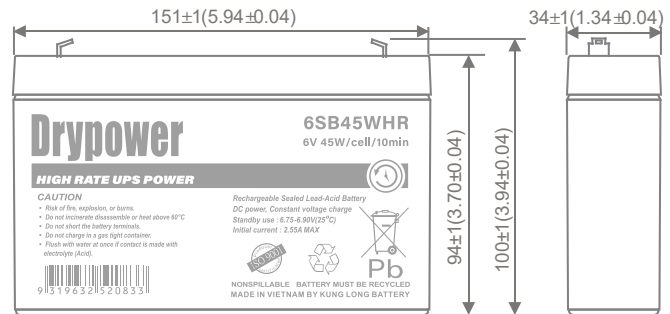
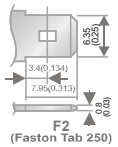
Classified as a non-spillable battery.
Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

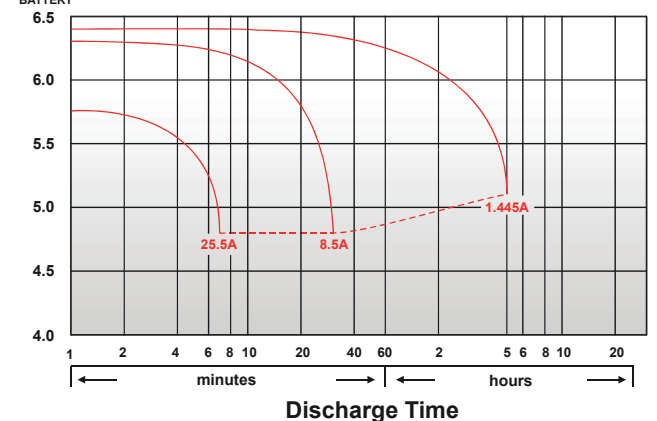


DIMENSIONS

mm (inch)

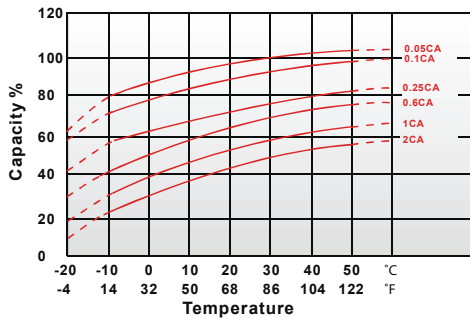


Discharge Time VS. Discharge Current (25°C)

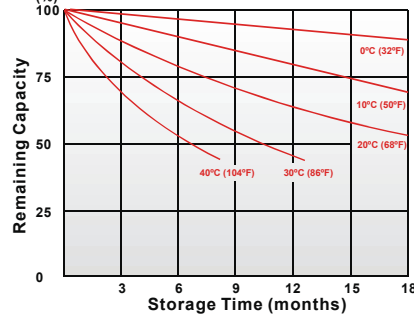


CHARACTERISTICS CHARTS

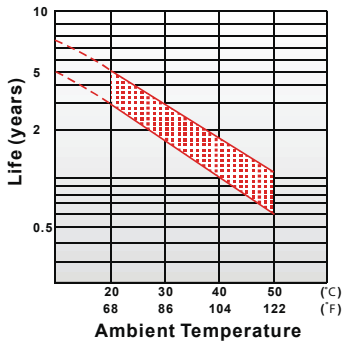
Effect of Temperature on Capacity 25°C (77°F)



Capacity Retention Characteristic



Trickle (or float) Service Life



FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Specially formulated solder paste to ensure reliable power delivery.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Special grid frame alloy design with outstanding anti-corrosion performance.
- ◆ Higher percentage of tin content compared with the industry standard. Tin extends battery standby life by minimising sulphation (corrosion) especially at higher temperatures.
- ◆ Manufactured by Kung Long Battery (KLB) at facilities in Taiwan and Vietnam. KLB is a leading manufacturer and complies with relevant international quality standards including ISO9001, CE ETL9000, UL1989, OHSAS18001 and ISO17025. KLB supports Green Sustainable supply chain practices.



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	54.6	59	63	66.4	69.2	70.8	72
10	min	35.3	38.3	41.2	43.6	44.8	45.7	46.6
15	min	29.1	30.6	31.7	32.7	33.6	34.2	34.8
30	min	15	15.9	16.7	17.4	17.7	18	18.2
60	min	9.77	10.2	10.5	10.8	11	11.1	11.2
120	min	5.29	5.45	5.58	5.7	5.75	5.8	5.83
180	min	4.12	4.26	4.4	4.53	4.61	4.67	4.72
240	min	3.33	3.46	3.56	3.66	3.72	3.77	3.81
300	min	2.83	2.93	2.99	3.04	3.07	3.1	3.12
600	min	1.59	1.65	1.68	1.71	1.73	1.75	1.76
1200	min	0.836	0.864	0.884	0.889	0.893	0.897	0.9

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	29.6	31.9	34.3	36	37	38.1	39.2
10	min	18.4	20.2	21.6	22.4	23.1	23.6	24
15	min	13.8	14.6	15.4	16.2	16.6	17	17.3
30	min	7.9	8.29	8.71	9.16	9.47	9.64	9.77
60	min	5.07	5.18	5.26	5.34	5.37	5.41	5.46
120	min	2.58	2.67	2.72	2.78	2.82	2.85	2.87
180	min	2.08	2.14	2.19	2.22	2.25	2.27	2.29
240	min	1.66	1.71	1.73	1.76	1.78	1.79	1.8
300	min	1.45	1.49	1.51	1.53	1.54	1.55	1.56
600	min	0.819	0.833	0.846	0.857	0.863	0.869	0.875
1200	min	0.423	0.438	0.446	0.451	0.455	0.457	0.461

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%)

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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.