

Drypower

UPS POWER RANGE
HIGH RATE UPS POWER



6V

45W

SLA

UPS
AGM

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 50°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)



Barcode



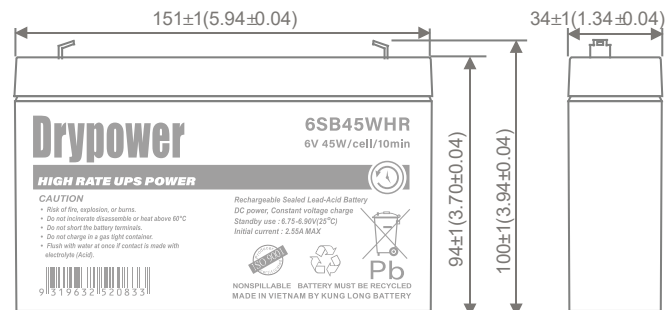
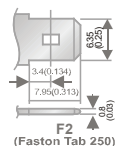
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* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.



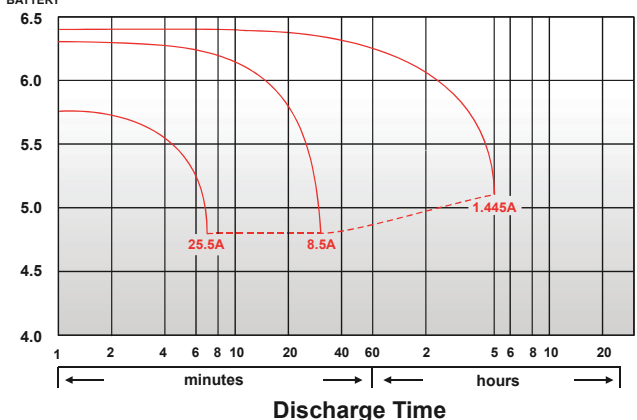
DIMENSIONS

mm (inch)



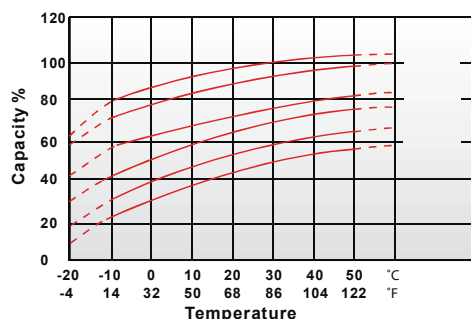
(V)
FOR 6V
BATTERY

Discharge Time VS. Discharge Current (25°C)

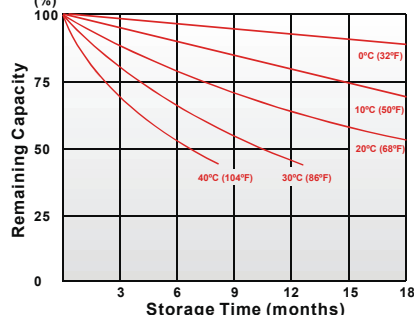


CHARACTERISTICS CHARTS

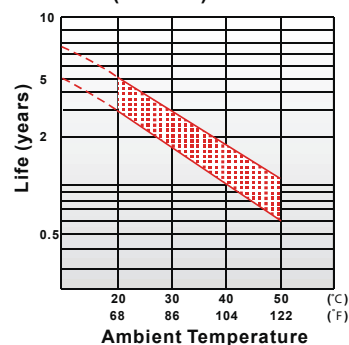
Effect of Temperature on Capacity 25°C (77°F)



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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