



6V

12Ah

SLA

AGM

6SB12P

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	6V	
Nominal Capacity	12Ah	
20 hour rate	(0.60A to 5.25V)	12Ah
10 hour rate	(1.14A to 5.25V)	11.4Ah
5 hour rate	(2.04A to 5.10V)	10.2Ah
1C	(12A to 4.8V)	6.8Ah
3C	(36A to 4.8V)	4.8Ah
Weight	Approx. 1.84kg	
Internal Resistance (at 1KHz)	Approx. 6mΩ	
Maximum Discharge Current (5 secs)	180A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	7.20V to 7.50V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	3.6A	
Standby Use		
Float Charging Voltage	6.75V to 6.90V	
Coefficient -3.0mV/°C/Cell		
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	F1 (Faston Tab 187)
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

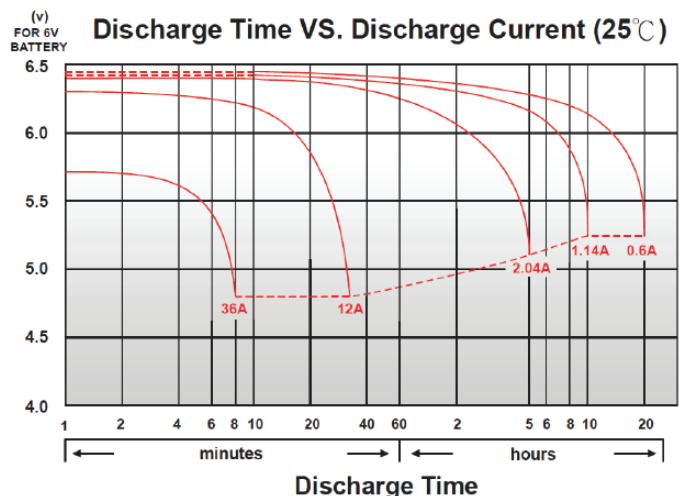
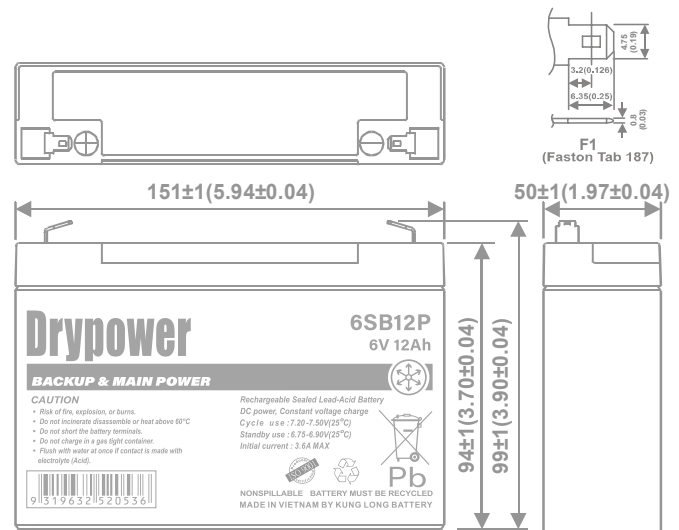


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DIMENSIONS

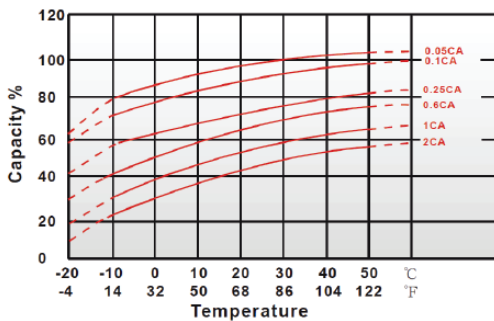
mm (inch)



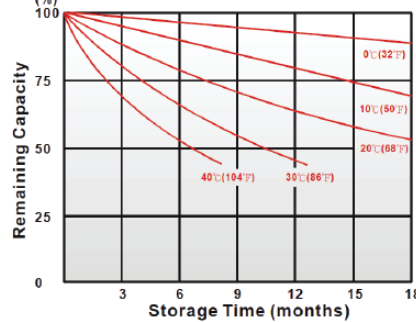
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

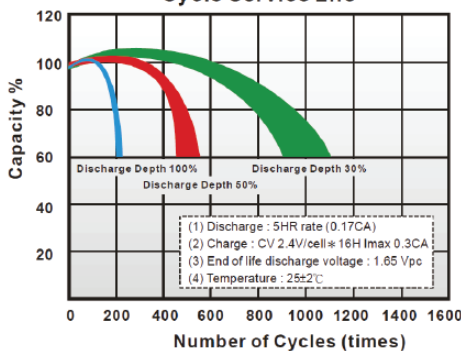
Effect of Temperature on Capacity 25°C (77°F)



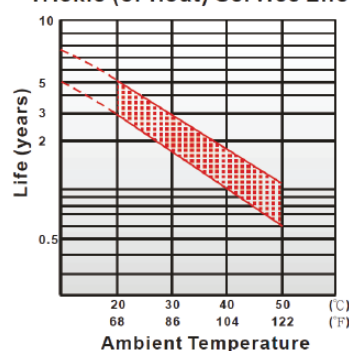
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ♦ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ♦ Maintenance free technology and non-spillable design.
- ♦ Excellent charge retention in storage.
- ♦ 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	72.5	77.9	80.3	81.9	84	85.7	87.5
10	min	47.7	52.4	54	55.1	56.8	57.5	58.9
15	min	39.5	41.5	42.8	43.7	45	45.9	46.2
30	min	22.2	24	24.7	25.2	26.5	27	27.4
60	min	13.5	14.4	14.8	15.1	15.4	15.7	15.9
120	min	7.85	8.51	8.77	8.95	9.01	9.29	9.4
180	min	5.88	5.95	6.35	6.37	6.4	6.45	6.58
240	min	4.75	4.8	4.85	4.87	4.92	4.94	4.98
300	min	3.92	4.15	4.28	4.32	4.35	4.4	4.44
600	min	2.1	2.21	2.28	2.33	2.39	2.44	2.47
1200	min	1.09	1.2	1.23	1.26	1.31	1.35	1.39

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	39.5	41.2	44.3	45.2	46.7	47.1	47.8
10	min	27.1	30	31.8	32.4	33.1	33.4	33.7
15	min	20.2	21	22.3	22.4	23.2	23.4	23.6
30	min	12	12.3	13	13.5	13.7	13.8	14.1
60	min	7.32	7.56	8.02	8.18	8.34	8.42	8.45
120	min	3.95	4.15	4.4	4.49	4.58	4.62	4.66
180	min	2.95	3	3.11	3.17	3.24	3.26	3.29
240	min	2.30	2.33	2.47	2.52	2.57	2.59	2.62
300	min	1.85	1.95	2.07	2.11	2.15	2.17	2.21
600	min	1.13	1.16	1.2	1.22	1.25	1.26	1.31
1200	min	0.61	0.617	0.63	0.645	0.665	0.67	0.692

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%)

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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.