



12V

5Ah

SLA

AGM

12SB5TL

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
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)	2.0Ah	
Weight	Approx. 1.9kg	
Internal Resistance (at 1KHz)	Approx. 19mΩ	
Maximum Discharge Current (5 secs)	75A	
Charge Methods at 25°C		
Standby Use		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Maximum Charging Current	1.5A	
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 250)	

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	N/A
Max. Allowable Torque Value	

Design Life	6-9 years at 20°C
Expected Trickle Design Life	

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

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



Barcode

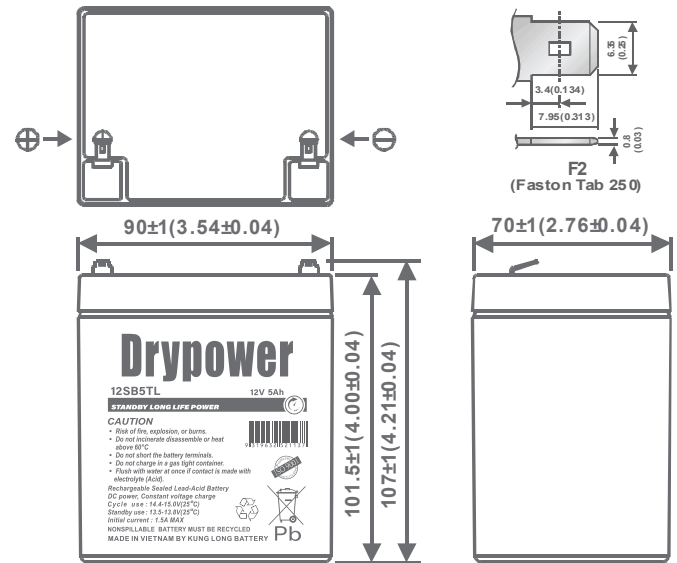


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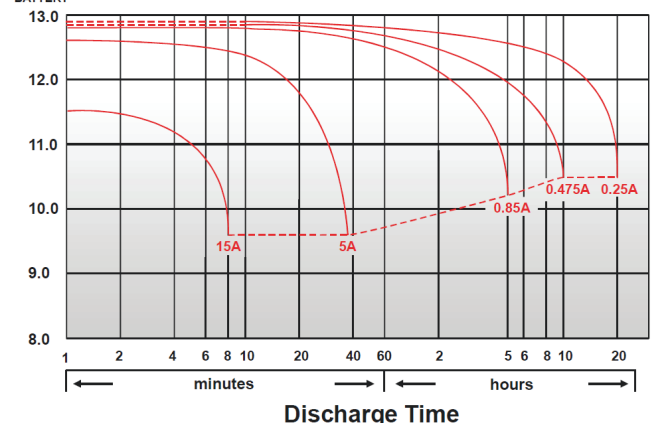


DIMENSIONS

mm (inch)

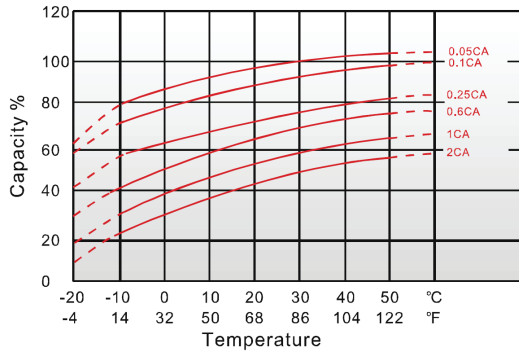


Discharge Time VS. Discharge Current (25°C)

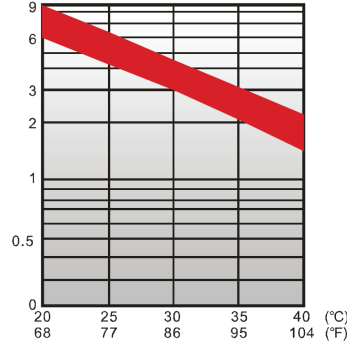


CHARACTERISTICS CHARTS

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



Trickle (or float) Service Life

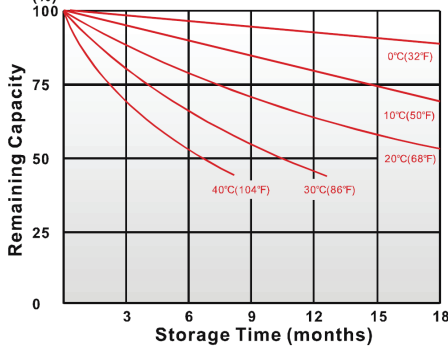


FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- ◆ Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- ◆ High rate discharge capable to ensure reliable performance.
- ◆ Maintenance free technology and non-spillable design.
- ◆ 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.



Capacity Retention Characteristic



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
5	min	36.3	39.5	41.5	43.5	44.3	45.5	47.0
10	min	25.7	27.7	29.2	30.2	30.7	31.3	32.3
15	min	19.7	21.2	21.8	22.5	22.8	23.2	23.7
30	min	11.2	11.7	12.1	12.5	12.7	12.8	12.9
60	min	5.95	6.27	6.47	6.7	6.82	6.93	7.07
120	min	3.13	3.38	3.53	3.65	3.72	3.8	3.92
180	min	2.53	2.72	2.85	2.97	3.02	3.07	3.15
240	min	2.02	2.15	2.27	2.33	2.37	2.4	2.45
300	min	1.73	1.87	1.95	1.98	2.00	2.02	2.05
600	min	1.01	1.09	1.15	1.17	1.18	1.19	1.21
1200	min	0.53	0.572	0.603	0.615	0.62	0.625	0.633

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
5	min	17.8	21.7	23.9	25.8	26.4	27	27.8
10	min	13.2	14.8	15.7	16.2	16.6	16.9	17.3
15	min	9.92	10.5	10.9	11.1	11.2	11.3	11.5
30	min	5.84	6.15	6.26	6.38	6.42	6.47	6.55
60	min	3.04	3.2	3.38	3.46	3.49	3.53	3.59
120	min	1.58	1.7	1.79	1.87	1.91	1.94	1.99
180	min	1.27	1.35	1.41	1.47	1.49	1.52	1.55
240	min	1.00	1.07	1.11	1.15	1.16	1.18	1.21
300	min	0.851	0.898	0.919	0.942	0.953	0.962	0.978
600	min	0.497	0.506	0.514	0.521	0.524	0.529	0.535
1200	min	0.268	0.274	0.279	0.284	0.286	0.287	0.291

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.