



12V

125Ah

SLA

AGM

12SB125TL-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	
20 hour rate (6.25A to 10.00V)	125Ah
10 hour rate (12.5A to 10.80V)	125Ah
5 hour rate (21.25A to 10.20V)	106.25Ah
1 hour rate (75A to 9.60V)	75Ah
Weight	Approx. 39.6kg
Internal Resistance (at 1KHz)	Approx. 3.2mΩ
Maximum Discharge Current (5 secs)	1250A
Charge Methods at 25°C	
Standby Use	
Float Charging Voltage	13.5V to 13.8V
Coefficient -3.0mV/°C/Cell	
Maximum Charging Current	37.5A
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	98%
3 months	94%
6 months	85%
Case Material	UL94-V0 Flame Retardant
Termination	F18 (M8 Bolt)
Description of Torque Value of Hardware for the Terminals	
Recommended Torque Value	M8: 12 N-m (122kgf-cm)
Max. Allowable Torque Value	M8: 15 N-m (153kgf-cm)
Design Life	
Expected Trickle Design Life	10-12 years at 20°C

Classified as a non-spillable battery.

Approved for transportation by:

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



Barcode

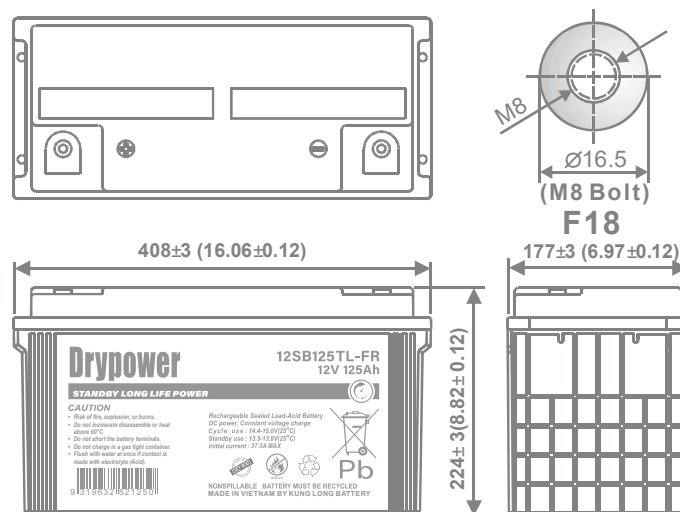


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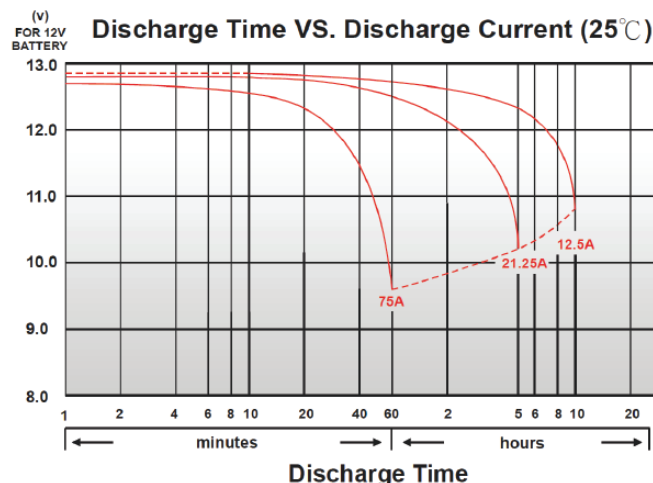


DIMENSIONS

mm (inch)



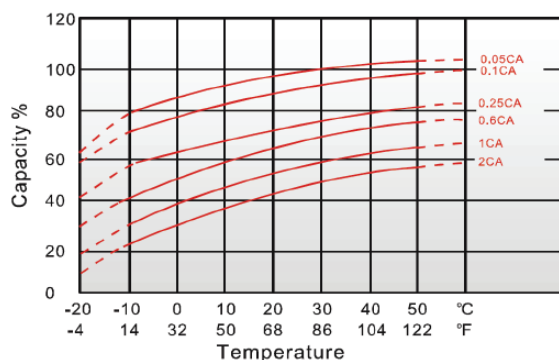
Discharge Time VS. Discharge Current (25°C)



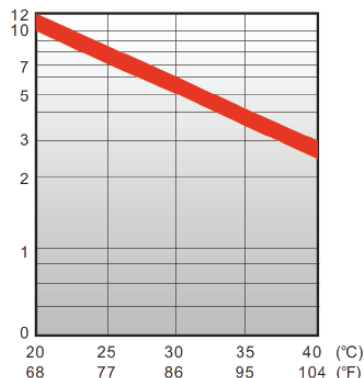
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

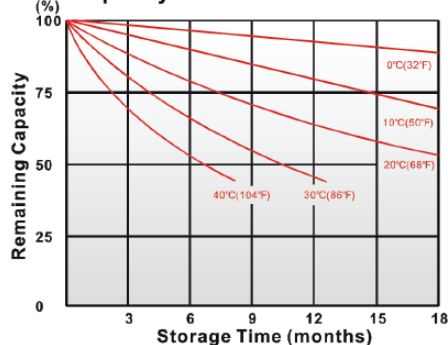
Effect of Temperature on Capacity 25°C(77°F)



Trickle (or float) Service Life



Capacity Retention Characteristic



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.



PERFORMANCE DATA

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

End Voltage		1.80V	1.75V	1.70V	1.67V	1.60V
Time						
5	min	561	644	692	708	767
10	min	454	492	549	554	570
15	min	392	410	433	435	440
20	min	327	339	354	355	359
30	min	249	256	264	266	267
45	min	186	191	194	195	195
60	min	150	153	154	154	155
120	min	87.3	88.7	88.8	89.2	89.7
180	min	62.3	62.7	63	63.5	64.2
240	min	49.7	50.2	50.5	50.8	51.2
300	min	42.3	42.7	42.8	43	43.5
480	min	27	27.5	27.7	28	28.3
600	min	22	22.5	22.8	23	23.2
1200	min	12.3	12.5	12.6	12.7	12.8

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

End Voltage		1.80V	1.75V	1.70V	1.67V	1.60V
Time						
5	min	303	345	378	398	425
10	min	241	265	301	305	328
15	min	205	215	229	232	239
20	min	171	176	185	188	193
30	min	129	133	137	139	141
45	min	96.2	99	100	101	102
60	min	77.2	78.5	79.4	79.8	80.2
120	min	44.1	44.9	45.2	45.4	45.7
180	min	30.6	31.3	31.7	31.9	32.3
240	min	25	25.1	25.3	25.4	25.8
300	min	21.2	21.4	21.6	21.7	21.9
480	min	13.6	13.7	13.8	13.9	14
600	min	11.4	11.5	11.6	11.7	11.8
1200	min	6.15	6.19	6.2	6.25	6.32

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.