



12V

18Ah

SLA

AGM

12SB18TL

Rechargeable AGM Sealed Lead Acid Battery

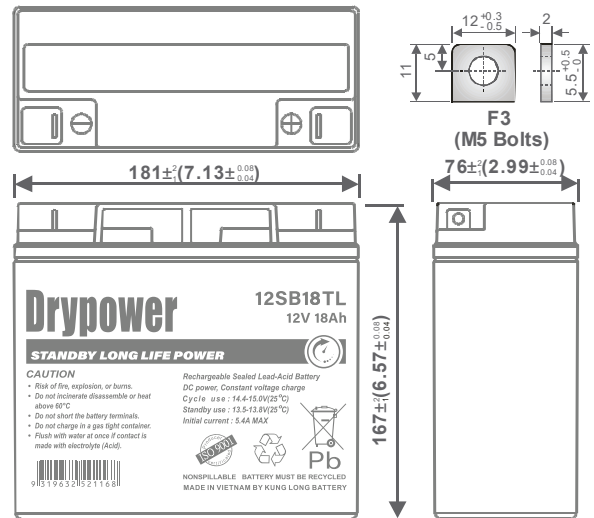
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate (0.9A to 10.50V)	18Ah	
10 hour rate (1.71A to 10.50V)	17.1Ah	
5 hour rate (3.06A to 10.20V)	15.3Ah	
1C (18A to 9.60V)	11.4Ah	
3C (54A to 9.60V)	7.2Ah	
Weight	Approx. 5.67kg	
Internal Resistance (at 1KHz)	Approx. 10.5mΩ	
Maximum Discharge Current (5 secs)	270A	
Charge Methods at 25°C		
Standby Use		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Maximum Charging Current	5.4A	
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	F3 (M5 Bolt & Nut)	



DIMENSIONS

mm (inch)



Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	N/A
Max. Allowable Torque Value	N/A

Design Life Expected Trickle Design Life	6-9 years at 20°C
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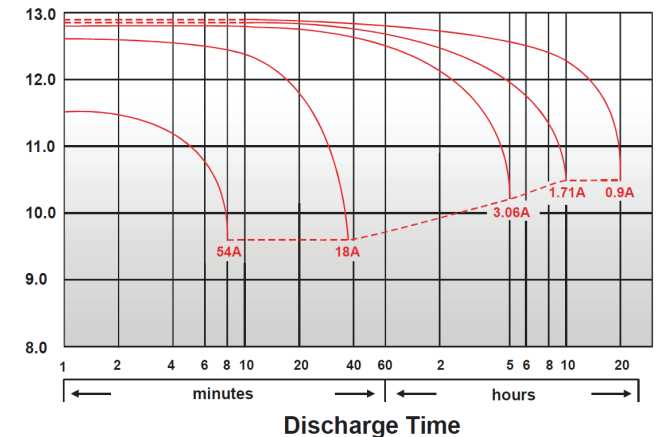
Classified as a non-spillable battery.
Approved for transportation by:

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



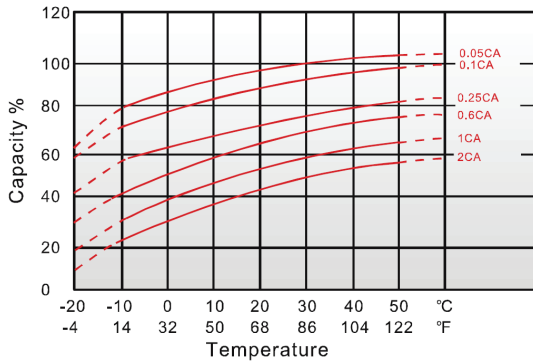
Barcode	 9319632521168
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(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

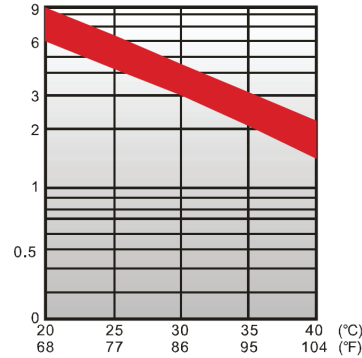


CHARACTERISTICS CHARTS

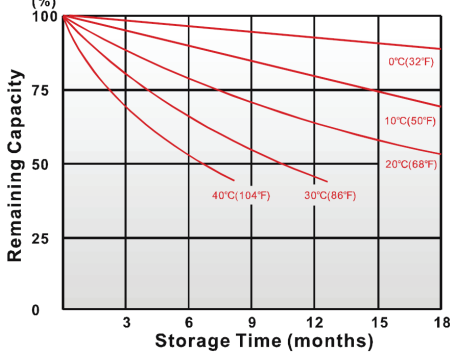
Effect of Temperature on Capacity 25°C(77°F)



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		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	98.9	116	128	135	137	139	141
10	min	67	77.1	84.5	89.1	90.2	91.7	92.9
15	min	57.2	64.5	69.4	72.5	73.3	74.2	75.1
30	min	32.7	35.1	37.7	39.4	39.8	40.3	40.8
60	min	18.8	19.8	20.7	21.3	21.5	21.8	22.2
120	min	11.9	12.4	12.7	13.1	13.2	13.3	13.5
180	min	8.75	9.1	9.33	9.53	9.6	9.68	9.78
240	min	6.63	6.93	7.12	7.27	7.32	7.38	7.46
300	min	5.82	6.05	6.17	6.27	6.30	6.35	6.41
600	min	3.4	3.52	3.6	3.67	3.68	3.72	3.75
1200	min	1.77	1.83	1.88	1.92	1.93	1.95	1.96

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	62.6	68.3	71.9	75.1	76.4	77.8	80.2
10	min	38.6	41.8	44.3	46.5	47.4	48.4	50.1
15	min	31.9	34.6	36.3	37.7	38.2	38.8	39.7
30	min	17.4	18.7	19.8	20.7	21	21.4	21.9
60	min	9.74	10.3	10.7	11	11.1	11.3	11.5
120	min	5.98	6.23	6.39	6.53	6.58	6.64	6.72
180	min	4.35	4.52	4.64	4.73	4.76	4.8	4.85
240	min	3.43	3.52	3.58	3.62	3.63	3.65	3.68
300	min	2.96	3.02	3.07	3.11	3.12	3.14	3.16
600	min	1.73	1.77	1.8	1.82	1.83	1.84	1.85
1200	min	0.893	0.914	0.931	0.946	0.952	0.959	0.962

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.