



12V

12Ah

SLA

AGM

## 12SB12TL

Rechargeable AGM Sealed Lead Acid Battery

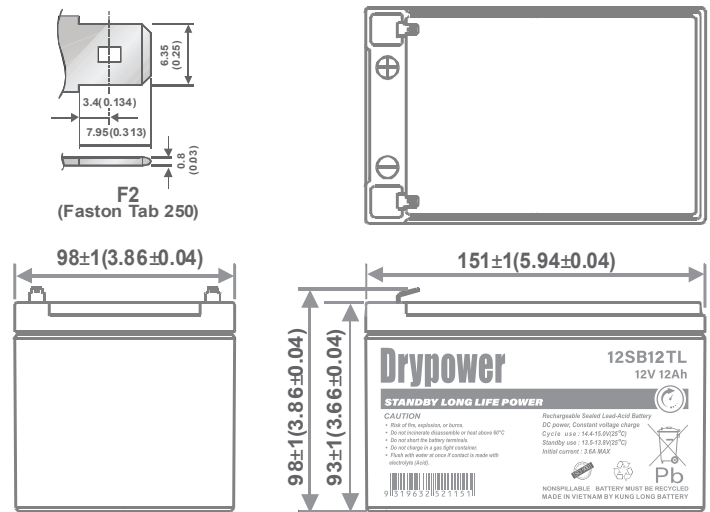
### SPECIFICATIONS

<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity</b>		
20 hour rate (0.6A to 10.50V)	12Ah	
10 hour rate (1.14A to 10.50V)	11.4Ah	
5 hour rate (2.04A to 10.20V)	10.2Ah	
1C (12A to 9.60V)	7.6Ah	
3C (36A to 9.60V)	4.8Ah	
<b>Weight</b>	Approx. 4.02kg	
<b>Internal Resistance (at 1KHz)</b>	Approx. 11mΩ	
<b>Maximum Discharge Current (5 secs)</b>	180A	
<b>Charge Methods at 25°C</b>		
<b>Standby Use</b>		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Maximum Charging Current	3.6A	
<b>Operating Temperature Range</b>		
<b>Charge</b>	-15°C to 40°C	
<b>Discharge</b>	-15°C to 50°C	
<b>Storage</b>	-15°C to 40°C	
<b>Charge Retention (Shelf Life) at 20°C</b>		
1 month	92%	
3 months	90%	
6 months	80%	
<b>Case Material</b>	ABS UL94 HB	
<b>Termination</b>	F2 (Faston 250)	



### DIMENSIONS

mm (inch)



### Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	N/A
Max. Allowable Torque Value	

<b>Design Life</b>	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)

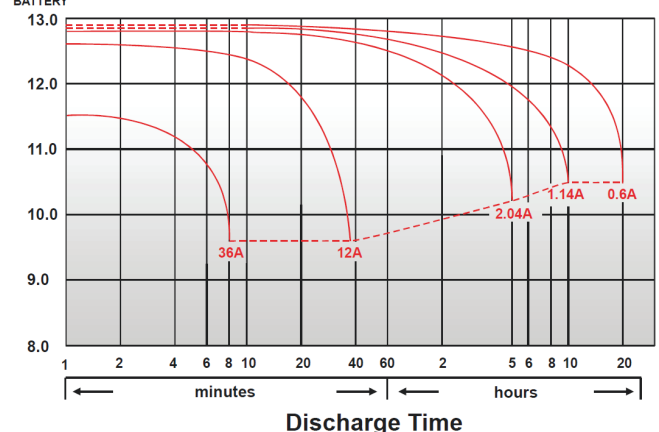


Barcode



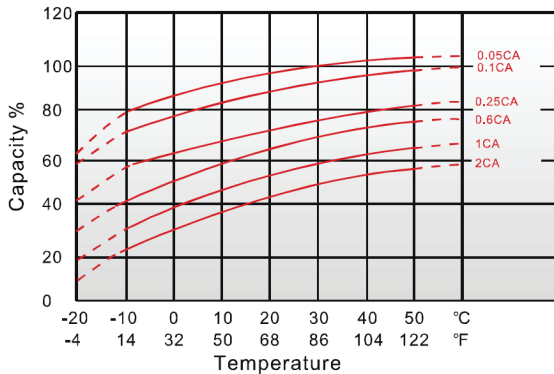
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### Discharge Time VS. Discharge Current (25°C)

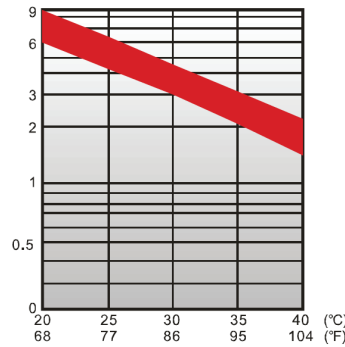


### CHARACTERISTICS CHARTS

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



Trickle (or float) Service Life

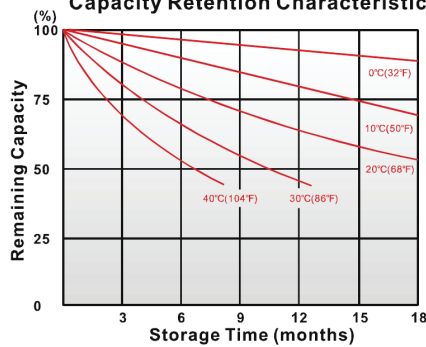


### FEATURES & BENEFITS

- ◆ 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
Time								
5	min	77.2	84.2	89.3	94.8	97.3	99.7	105
10	min	56.5	60.3	63	65.3	66.2	67.5	68.8
15	min	42.2	45.3	47.2	48.5	49.2	49.8	51
30	min	26.7	28	29	30	30.3	30.7	31.2
60	min	14.9	15.9	16.6	17.2	17.3	17.5	17.7
120	min	7.8	8.6	9.02	9.22	9.28	9.38	9.52
180	min	5.4	6.15	6.53	6.68	6.97	7.1	7.2
240	min	4.43	4.97	5.22	5.37	5.43	5.52	5.62
300	min	4.12	4.35	4.51	4.65	4.72	4.77	4.83
600	min	2.43	2.55	2.62	2.66	2.68	2.7	2.72
1200	min	1.29	1.31	1.35	1.37	1.39	1.4	1.43

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	37.8	41.8	44.6	47.5	48.8	50.1	52.7
10	min	28.1	30.3	31.5	32.7	33.2	33.8	34.6
15	min	21.3	22.6	23.7	24.6	25	25.4	26.1
30	min	12.6	13.5	14.1	14.6	14.8	15	15.3
60	min	8.55	8.74	8.86	8.97	9.02	9.08	9.16
120	min	4.71	4.84	4.95	5.04	5.08	5.13	5.18
180	min	3.14	3.33	3.4	3.46	3.49	3.52	3.56
240	min	2.15	2.26	2.35	2.42	2.45	2.49	2.74
300	min	1.98	2.06	2.12	2.18	2.2	2.23	2.27
600	min	1.19	1.22	1.24	1.26	1.27	1.28	1.29
1200	min	0.619	0.626	0.645	0.654	0.661	0.669	0.683

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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