



12V

3Ah

SLA

AGM

## 12SB3P

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity</b>		
20 hour rate (0.150A to 10.50V)	3Ah	
10 hour rate (0.285A to 10.50V)	2.85Ah	
5 hour rate (0.510A to 10.20V)	2.55Ah	
1C (3A to 9.60V)	1.60Ah	
3C (9A to 9.60V)	1.05Ah	
<b>Weight</b>	Approx. 1.3kg	
<b>Internal Resistance (at 1KHz)</b>	Approx. 45mΩ	
<b>Maximum Discharge Current (5 secs)</b>	45A	
<b>Charge Methods at 25°C</b>		
<b>Cycle Use</b>		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	0.9A	
<b>Standby Use</b>		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
<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>	F1 (Faston Tab 187)
<b>Design Life</b>	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

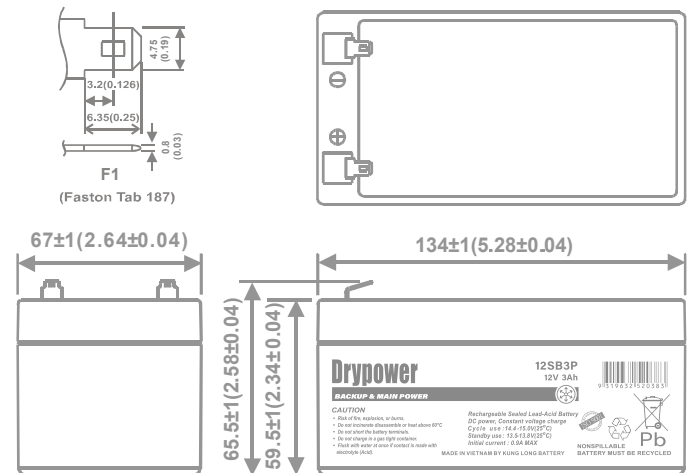


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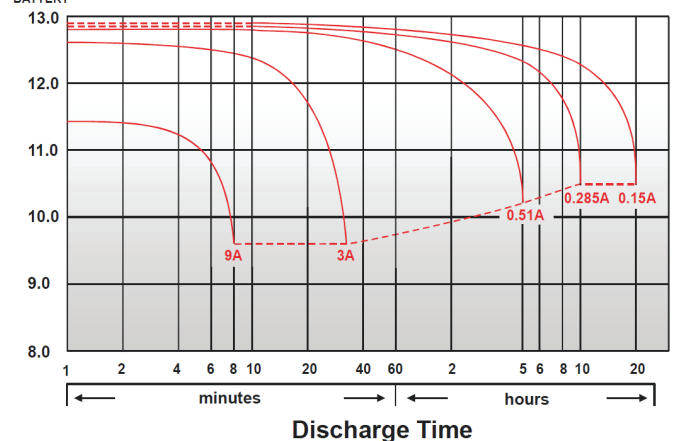


### DIMENSIONS

mm (inch)

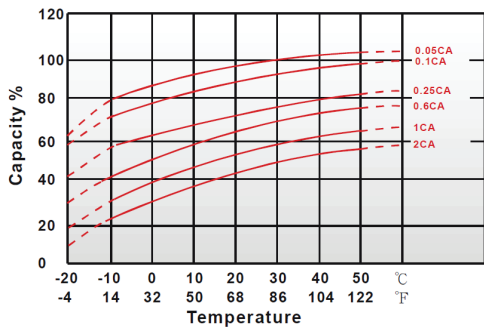


(v) FOR 12V BATTERY **Discharge Time VS. Discharge Current (25°C)**

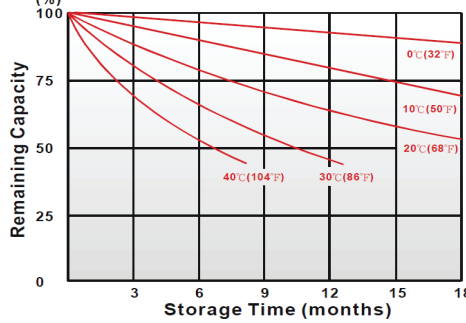


## CHARACTERISTICS CHARTS

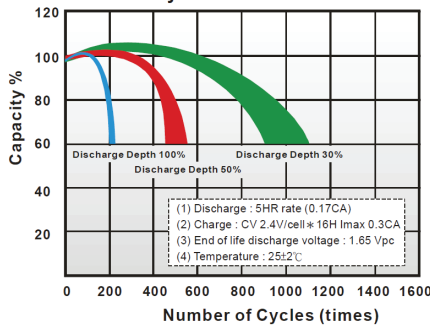
Effect of Temperature on Capacity 25°C (77°F)



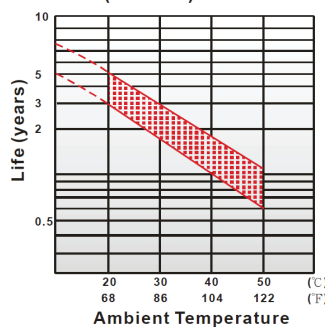
Capacity Retention Characteristic



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	15.7	17.7	19	20.2	20.8	21.4	22.1
10	min	11.4	12.4	13.3	14	14.4	14.7	15
15	min	8.63	9.61	10.1	10.6	10.9	11.2	11.5
30	min	5.03	5.51	5.82	6.18	6.32	6.43	6.53
60	min	2.88	3.2	3.43	3.63	3.73	3.79	3.88
120	min	1.7	1.85	1.98	2.12	2.18	2.25	2.35
180	min	1.27	1.46	1.56	1.63	1.66	1.7	1.77
240	min	0.968	1.09	1.17	1.21	1.23	1.27	1.33
300	min	0.823	0.926	0.994	1.03	1.05	1.07	1.1
600	min	0.547	0.582	0.597	0.608	0.615	0.62	0.628
1200	min	0.299	0.309	0.317	0.32	0.322	0.324	0.33

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	7.95	9.24	10.3	11.1	11.5	12	12.6
10	min	5.87	6.52	7.07	7.46	7.62	7.79	8.08
15	min	4.49	5.03	5.37	5.71	5.86	6.02	6.23
30	min	2.56	2.87	3.03	3.1	3.12	3.14	3.17
60	min	1.54	1.72	1.81	1.88	1.92	1.94	1.99
120	min	0.945	0.993	1.04	1.08	1.1	1.12	1.15
180	min	0.679	0.718	0.752	0.786	0.807	0.826	0.861
240	min	0.556	0.581	0.604	0.625	0.634	0.646	0.663
300	min	0.472	0.493	0.511	0.526	0.533	0.542	0.554
600	min	0.273	0.289	0.301	0.306	0.308	0.311	0.313
1200	min	0.147	0.154	0.158	0.161	0.163	0.165	0.167

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.