



12V

12Ah

SLA

AGM

12SB12P-F2

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate (0.60A 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)	6.4Ah	
3C (36A to 9.60V)	4.2Ah	
Weight	Approx. 3.75kg	
Internal Resistance (at 1KHz)	Approx. 13mΩ	
Maximum Discharge Current (5 secs)	180A	
Charge Methods at 25°C		
Cycle Use		
Float Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Standby Use		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Maximum Charging Current	3.6A	
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 Tab 250)
Design Life	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

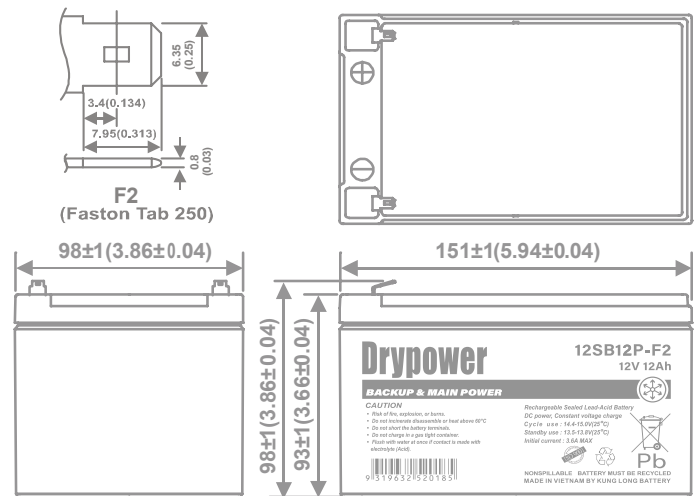


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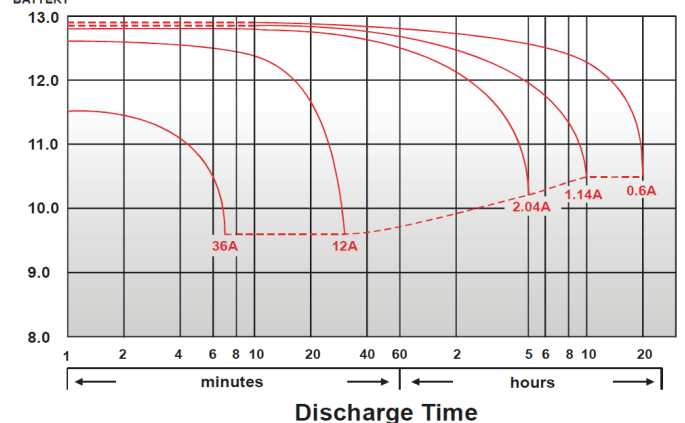


DIMENSIONS

mm (inch)

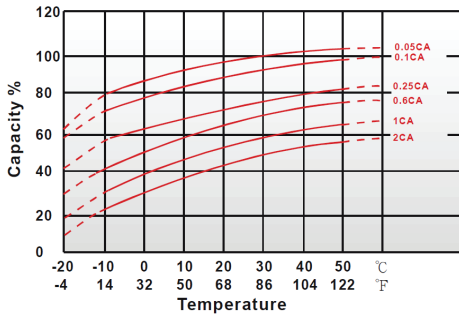


(v) FOR 12V BATTERY **Discharge Time VS. Discharge Current (25°C)**

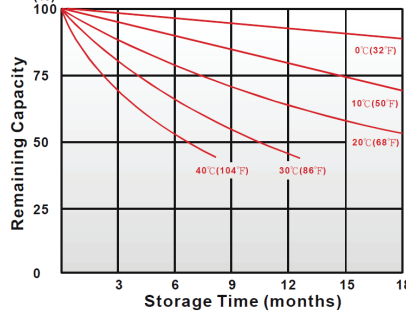


CHARACTERISTICS CHARTS

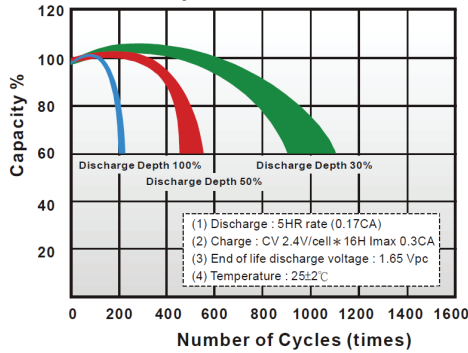
Effect of Temperature on Capacity 25°C(77°F)



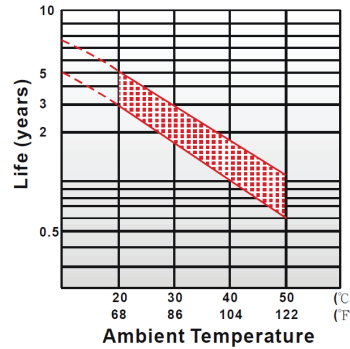
Capacity Retention Characteristic



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	67.6	75.2	80.8	86.7	89.3	91.9	97
10	min	48	52.5	54.9	57.3	58.2	59.5	61
15	min	38.6	41	42.6	44.1	44.5	45.4	46.6
30	min	22.2	23.6	24.6	25.4	25.7	25.9	26.3
60	min	15.8	16.3	16.7	17	17.2	17.3	17.5
120	min	8.63	8.92	9.04	9.14	9.18	9.24	9.32
180	min	5.65	5.87	6.05	6.2	6.27	6.35	6.42
240	min	4.78	4.88	4.96	5.06	5.12	5.2	5.26
300	min	3.96	4.08	4.18	4.3	4.33	4.38	4.48
600	min	2.34	2.4	2.44	2.47	2.48	2.5	2.52
1200	min	1.19	1.21	1.25	1.26	1.28	1.29	1.32

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	37.2	41.4	44.5	47.7	49.1	50.6	53.4
10	min	25.7	28.1	29.4	30.7	31.2	31.9	32.7
15	min	19.8	21.3	22.1	22.9	23.2	23.5	24.2
30	min	11.4	12.1	12.6	13	13.1	13.3	13.5
60	min	8.21	8.4	8.52	8.63	8.68	8.74	8.82
120	min	4.21	4.36	4.47	4.56	4.59	4.63	4.68
180	min	2.87	3.06	3.13	3.19	3.22	3.25	3.29
240	min	2.38	2.43	2.47	2.52	2.55	2.58	2.62
300	min	1.97	2.03	2.08	2.14	2.16	2.19	2.23
600	min	1.16	1.18	1.2	1.22	1.23	1.24	1.25
1200	min	0.592	0.599	0.618	0.627	0.634	0.642	0.656

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.