



12V

9Ah

SLA

AGM

12SB9P-F2

Rechargeable AGM Sealed Lead Acid Battery

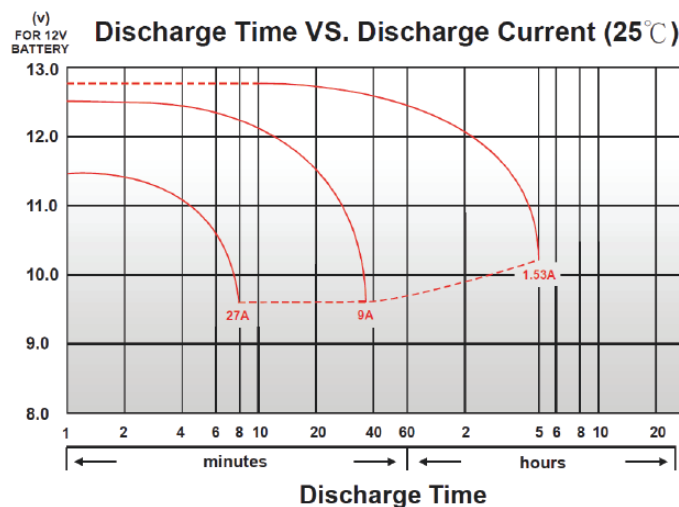
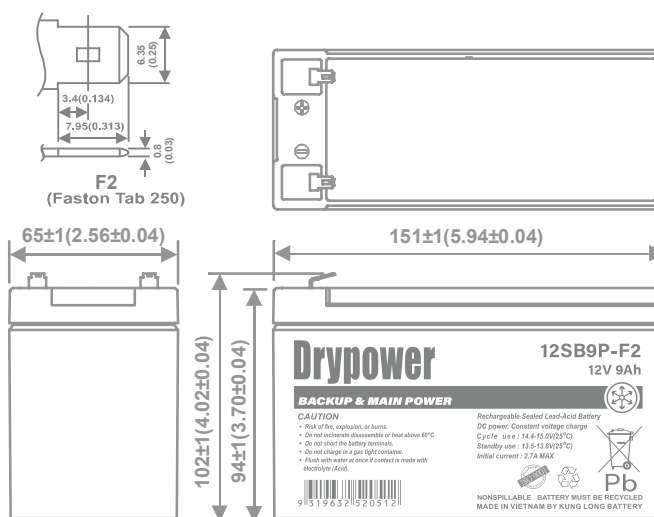
SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(0.45A to 10.50V)	9Ah
5 hour rate	(1.53A to 10.20V)	7.65Ah
1C	(9A to 9.60V)	5.7Ah
3C	(27A to 9.60V)	3.6Ah
Weight		Approx. 2.7kg
Internal Resistance (at 1KHz)		Approx. 14mΩ
Maximum Discharge Current (5 secs)		135A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage		14.4V to 15.0V
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current		2.7A
Standby Use		
Float Charging Voltage		13.5V to 13.8V
Coefficient -3.0mV/°C/Cell		
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		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		 9319632520512



DIMENSIONS

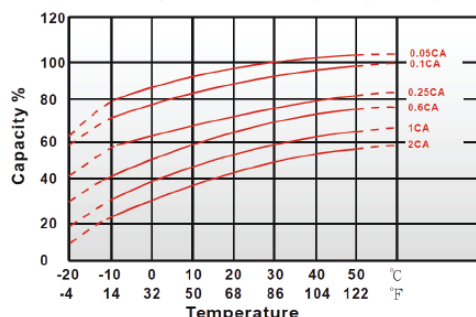
mm (inch)



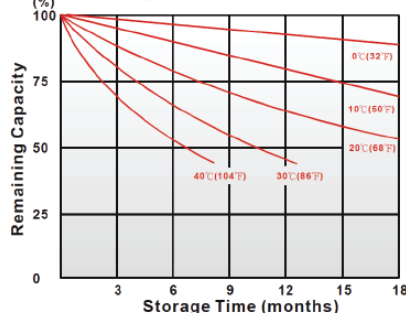
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

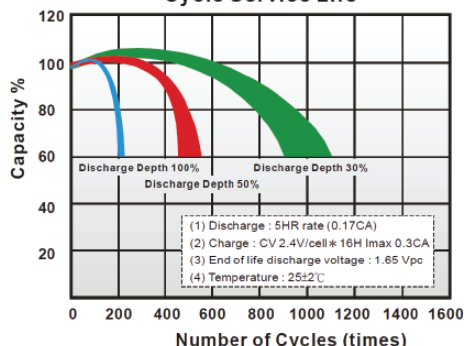
Effect of Temperature on Capacity 25°C (77°F)



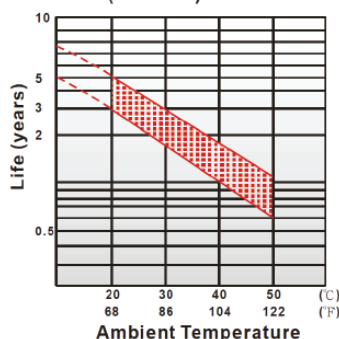
Capacity Retention Characteristic



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	57.1	60.2	64.7	67.8	69.8	71.2	74.7
10	min	36.5	39.1	42	44	45.2	46.1	48.3
15	min	30.1	31.2	32.3	33.4	34	34.7	35.9
30	min	15.8	16.2	17	17.7	17.8	18	19.1
60	min	9.97	10.4	10.7	11	11.1	11.3	11.5
120	min	5.4	5.56	5.69	5.82	5.87	5.9	5.95
180	min	4.2	4.35	4.49	4.62	4.67	4.75	4.85
240	min	3.4	3.53	3.63	3.73	3.78	3.85	3.92
300	min	2.89	2.99	3.05	3.1	3.12	3.15	3.18
600	min	1.62	1.68	1.71	1.75	1.77	1.78	1.8
1200	min	0.853	0.882	0.902	0.907	0.91	0.913	0.918

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	30.4	32.6	35	36.7	37.4	38.5	40.3
10	min	19.1	20.4	21.9	22.9	23.4	24.1	25.2
15	min	14.3	14.9	15.8	16.5	16.8	17.3	18
30	min	8.09	8.45	8.93	9.35	9.54	9.77	10.2
60	min	5.17	5.29	5.37	5.45	5.48	5.52	5.57
120	min	2.63	2.72	2.78	2.84	2.86	2.89	2.93
180	min	2.12	2.18	2.23	2.27	2.29	2.31	2.34
240	min	1.69	1.74	1.77	1.8	1.81	1.82	1.83
300	min	1.46	1.51	1.53	1.55	1.56	1.57	1.58
600	min	0.827	0.841	0.855	0.866	0.871	0.877	0.884
1200	min	0.427	0.442	0.451	0.456	0.459	0.462	0.466

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.