Drypower

VRLA AGM MULTIPURPOSE RANGE

BACKUP & MAIN POWER

12V **7Ah** **SLA** **AGM**

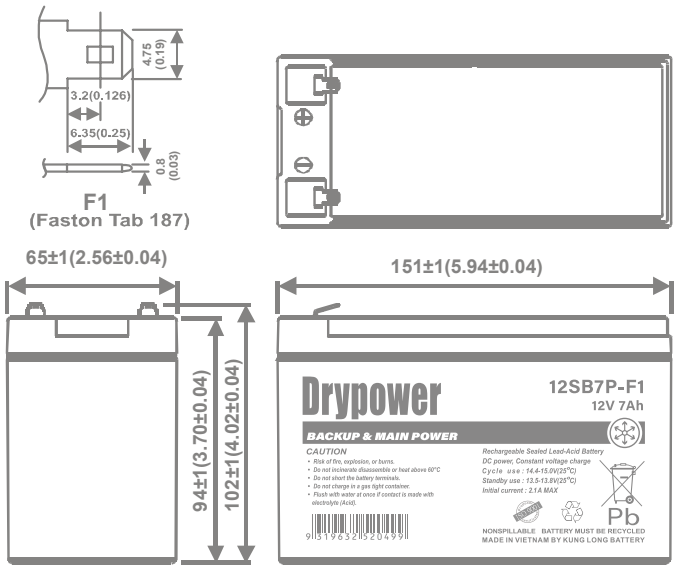
12SB7P-F1

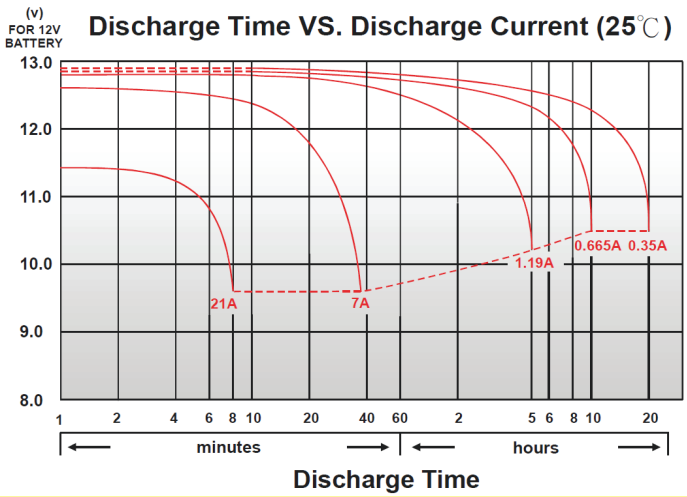
Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(0.350A to 10.50V)	7Ah
10 hour rate	(0.665A to 10.50V)	6.65Ah
5 hour rate	(1.190A to 10.20V)	5.95Ah
1C	(7A to 9.60V)	4.43Ah
3C	(21A to 9.60V)	2.8Ah
Weight		Approx. 2.24kg
Internal Resistance (at 1KHz)		Approx. 19mΩ
Maximum Discharge Current (5 secs)		105A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		14.4V to 15.0V
Maximum Charging Current		2.1A
Standby Use		
Float Charging Voltage Coefficient -3.0mV/°C/Cell		13.5V to 13.8V
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		F1 (Faston Tab 187)
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)		IATA
Barcode		9319632520499

DIMENSIONS mm (inch)





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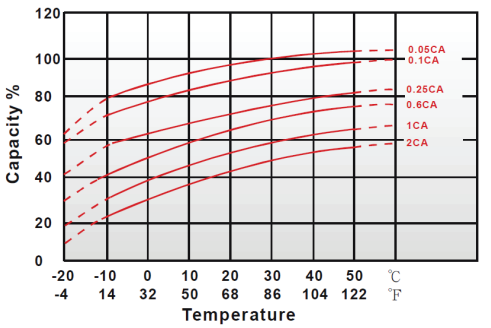
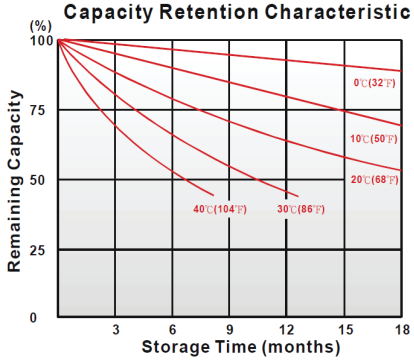
CHARACTERISTICS CHARTS

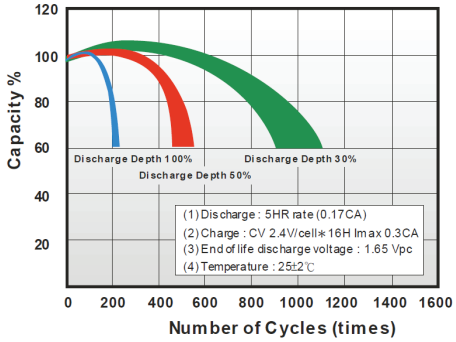
Effect of Temperature on Capacity 25℃(77℉)



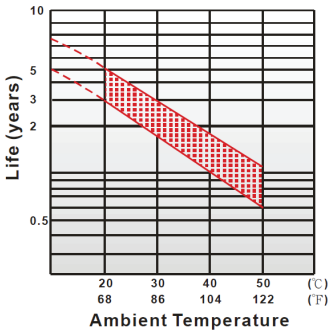
Capacity Retention Characteristic



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)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	43.8	47	49	51	51.8	52.8	54.3
10	min	30	31.8	33.2	34.3	34.8	35.5	36.5
15	min	24	25.2	25.8	26.5	26.8	27.3	28
30	min	12.1	12.9	13.6	14.1	14.3	14.4	14.6
60	min	7.7	8.38	8.63	8.87	8.97	9.08	9.23
120	min	4.1	4.52	4.72	4.92	4.98	5.07	5.2
180	min	3.08	3.32	3.48	3.62	3.67	3.72	3.8
240	min	2.85	2.93	3	3.05	3.07	3.1	3.15
300	min	2.47	2.53	2.58	2.62	2.63	2.65	2.68
600	min	1.36	1.4	1.42	1.43	1.44	1.44	1.45
1200	min	0.69	0.705	0.718	0.728	0.732	0.737	0.743

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	23.1	26.2	27.8	29.1	29.6	30.5	31.7
10	min	16.1	17.3	18.1	18.6	18.9	19.2	19.8
15	min	12.6	13.1	13.5	13.8	14	14.1	14.3
30	min	6.54	7.05	7.28	7.47	7.56	7.68	7.85
60	min	4.02	4.25	4.41	4.52	4.58	4.63	4.71
120	min	2.26	2.38	2.45	2.49	2.51	2.54	2.57
180	min	1.65	1.74	1.79	1.82	1.83	1.85	1.88
240	min	1.35	1.4	1.44	1.47	1.49	1.51	1.53
300	min	1.1	1.16	1.21	1.25	1.27	1.28	1.29
600	min	0.667	0.675	0.682	0.687	0.69	0.694	0.698
1200	min	0.339	0.346	0.35	0.353	0.355	0.357	0.359

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.