



12V

7Ah

SLA

AGM

12SEC7P-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	(0.630A to 10.50V)	6.3Ah
5 hour rate	(1.131A to 10.20V)	5.65Ah
1C	(7A to 9.60V)	3.5Ah
3C	(21A to 9.60V)	2.1Ah

Weight Approx. 2.0kg

Internal Resistance (at 1KHz) Approx. 28mΩ

Maximum Discharge Current (5 secs) 105A

Charge Methods at 25°C

Standby Use

Float Charging Voltage 13.5V to 13.8V
Coefficient -3.0mV/°C/Cell

Maximum Charging Current 2.1A

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 F1 (Faston Tab 187)

Design Life 3-5 years

Classified as a non-spillable battery.

Approved for transportation by:

- Air (IATA/ICAO provision 67)
- Road (DOT-CFR-HMR49)
- Sea (per IMDG amendment 27)



Barcode

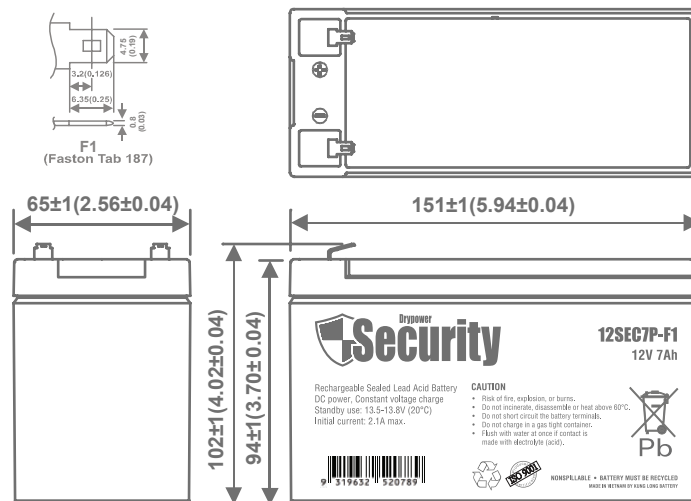


9319632520789

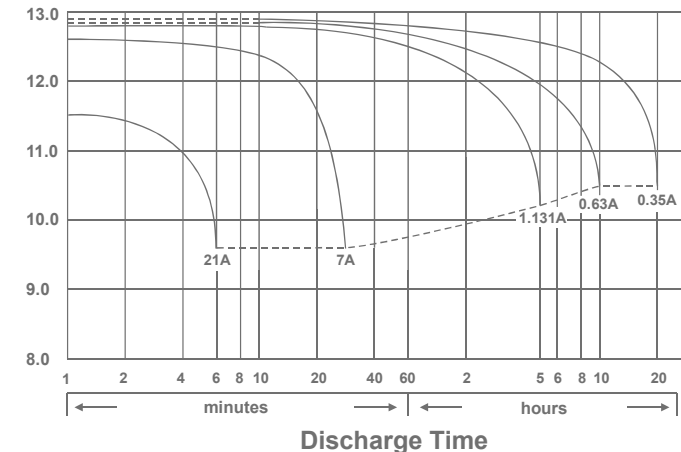


DIMENSIONS

mm (inch)


(v)
FOR 12V
BATTERY

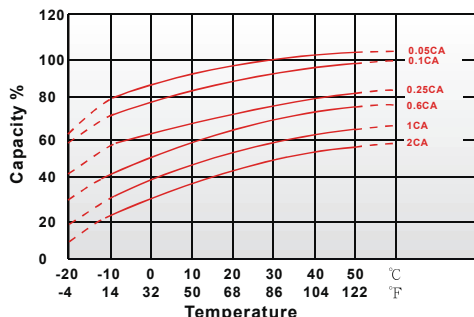
Discharge Time VS. Discharge Current (25°C)



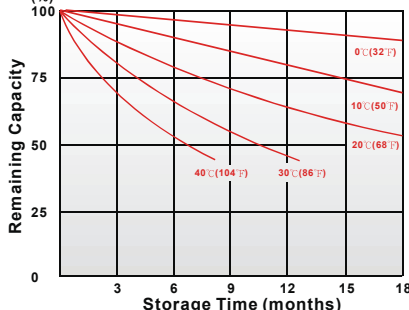
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

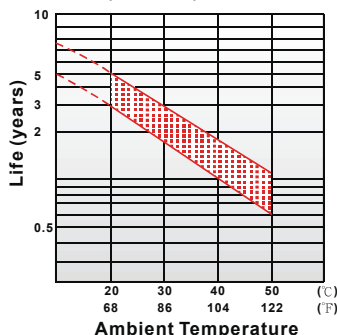
Effect of Temperature on Capacity 25°C (77°F)



Capacity Retention Characteristic



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								
2	min	48.9	67.6	83.2	93.2	97	99.1	102
4	min	33.4	43.5	51.7	56.8	58.7	59.8	61.5
6	min	26.3	33.2	38.6	41.9	43.2	44	45.1
8	min	22.3	27.5	31.5	33.9	34.9	35.4	36.2
10	min	19.3	23.3	26.4	28.3	29	29.4	30.1
15	min	15.8	18.5	20.5	21.7	22.2	22.4	22.9
20	min	13.4	15.3	16.7	17.5	17.9	18.1	18.4
30	min	10.7	11.8	12.6	13.1	13.3	13.4	13.6
60	min	7.38	7.72	7.92	7.99	8.03	8.06	8.06
90	min	5.35	5.58	5.7	5.76	5.78	5.8	5.86
120	min	4.26	4.43	4.52	4.56	4.58	4.6	4.63
180	min	3.26	3.37	3.44	3.46	3.48	3.49	3.51
240	min	2.6	2.68	2.73	2.75	2.76	2.77	2.79
300	min	2.18	2.24	2.28	2.29	2.3	2.31	2.32
480	min	1.5	1.53	1.56	1.57	1.57	1.58	1.58
600	min	1.26	1.28	1.3	1.31	1.31	1.32	1.32
1200	min	0.686	0.695	0.702	0.706	0.708	0.71	0.711

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								
2	min	28.2	39	48	53.8	55.9	57.2	59
4	min	18.5	24.2	28.7	31.5	32.6	33.2	34.2
6	min	14.5	18.3	21.3	23.1	23.8	24.2	24.8
8	min	12.2	15	17.2	18.5	19	19.3	19.8
10	min	10.5	12.7	14.4	15.4	15.8	16.1	16.4
15	min	8.33	9.72	10.8	11.4	11.7	11.8	12
20	min	7	7.97	8.7	9.15	9.32	9.43	9.6
30	min	5.47	6.03	6.44	6.7	6.8	6.87	6.97
60	min	3.72	3.89	3.99	4.03	4.05	4.06	4.06
90	min	2.69	2.81	2.87	2.9	2.91	2.92	2.95
120	min	2.14	2.22	2.27	2.29	2.3	2.31	2.33
180	min	1.63	1.69	1.72	1.73	1.74	1.75	1.76
240	min	1.3	1.34	1.36	1.37	1.38	1.38	1.39
300	min	1.08	1.12	1.13	1.14	1.15	1.15	1.16
480	min	0.745	0.762	0.773	0.778	0.781	0.784	0.787
600	min	0.623	0.636	0.644	0.649	0.651	0.653	0.656
1200	min	0.341	0.345	0.348	0.35	0.352	0.352	0.353

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%)

Aug2026

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.