



12V

7Ah

SLA

AGM

# 12SEC7P-F1

Rechargeable AGM Sealed Lead Acid Battery

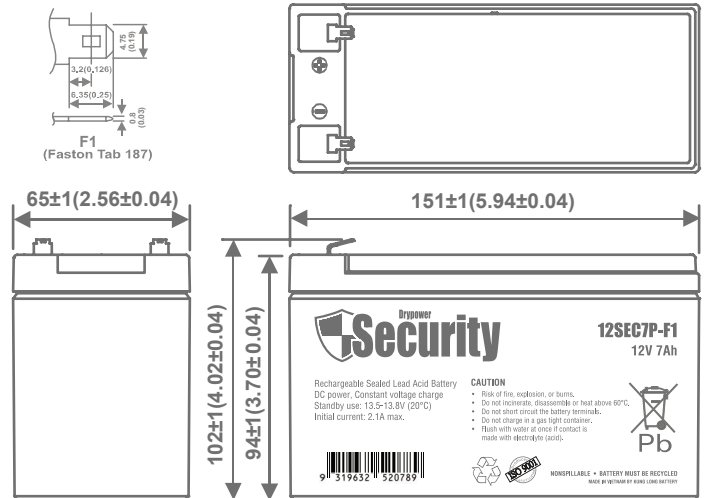
## SPECIFICATIONS

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 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 67) • Road (DOT-CFR-HMR49) • Sea (per IMDG amendment 27)		
Barcode	 9319632520789	

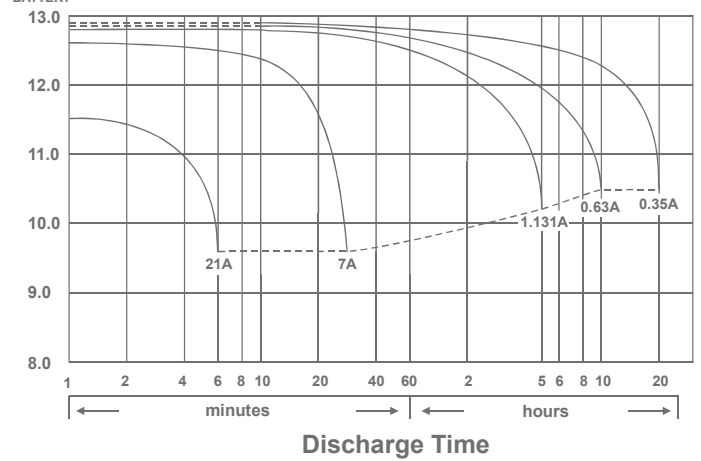


## DIMENSIONS

mm (inch)

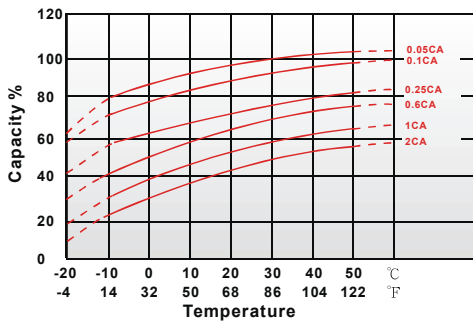


## Discharge Time VS. Discharge Current (25°C)

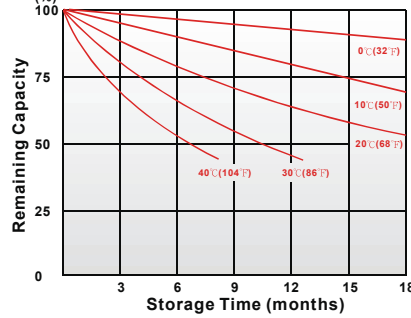


## CHARACTERISTICS CHARTS

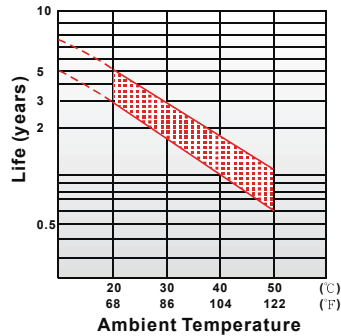
Effect of Temperature on Capacity 25°C (77°F)



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
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
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%)

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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.