

# Drypower

VRLA AGM MULTIPURPOSE RANGE  
**BACKUP & MAIN POWER**



12V

9Ah



SLA

AGM

## 12SB9P-F2

Rechargeable AGM Sealed Lead Acid Battery

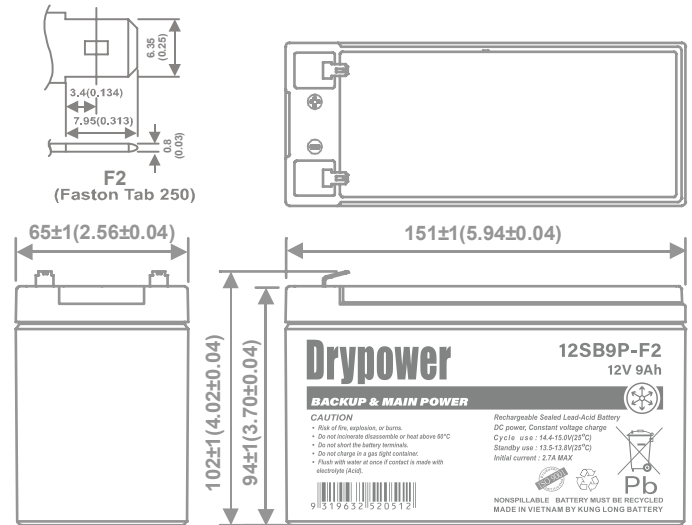
### SPECIFICATIONS

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		
<b>Cycle Use</b>		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	2.7A	
<b>Standby Use</b>		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Operating Temperature Range		
<b>Charge</b>	-15°C to 40°C	
<b>Discharge</b>	-15°C to 50°C	
<b>Storage</b>	-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	

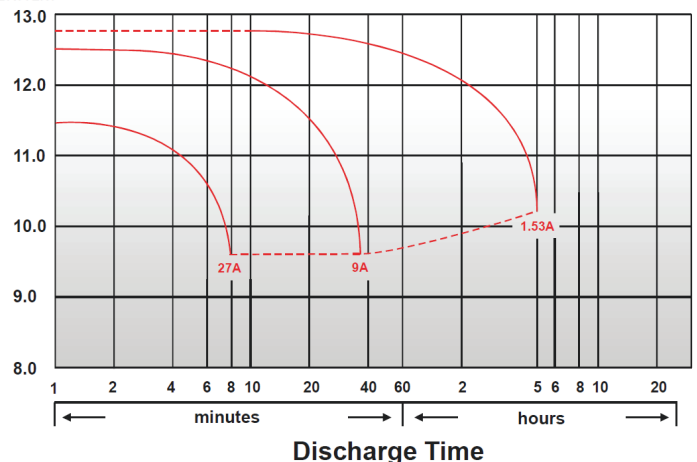


### DIMENSIONS

mm (inch)

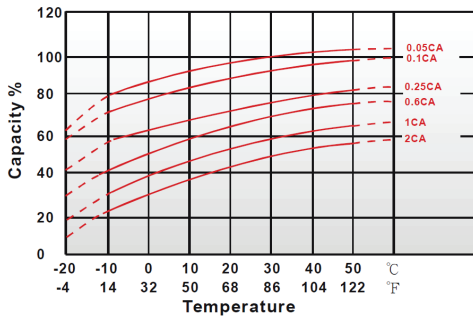


(V) FOR 12V BATTERY  
**Discharge Time VS. Discharge Current (25°C)**

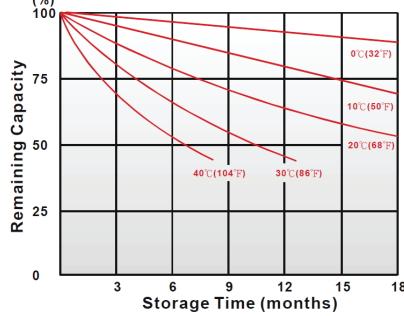


## CHARACTERISTICS CHARTS

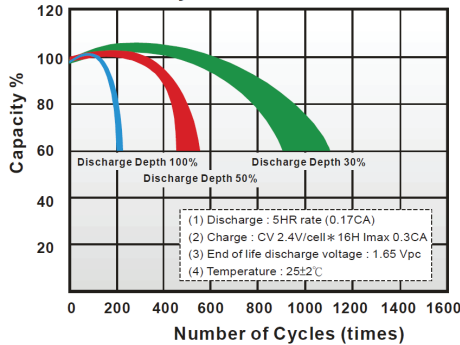
Effect of Temperature on Capacity 25°C (77°F)



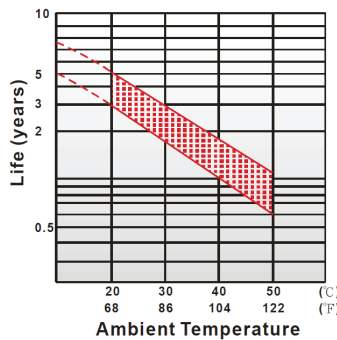
Capacity Retention Characteristic



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	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.