# STANDBY LONG LIFE POWER



**2V** 

105Ah

SLA

AGM

# 2SB110HP-FR

**Rechargeable AGM Sealed Lead Acid Battery** 

<b>SPECIFICATION</b>	٧S
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Nominal Voltage	2V	
Nominal Capacity	,	
20 hour rate	(5.25A to 1.75V)	105Ah
10 hour rate	(10.0A to 1.80V)	100Ah
5 hour rate	(17.0A to 1.70V)	85Ah
1 hour rate	(60A to 1.60V)	60Ah
1C	(100A to 1.60V)	50Ah

Weight Approx. 7.5kg

Internal Resistance (at 1KHz) Approx.  $1.4m\Omega$ 

Maximum Discharge Current (5 secs) 600A

Charge Methods at 25°C

Cycle Use
Charging Voltage
Coefficient -5.0mV/°C/Cell

Maximum Charging Current
31.5A

Standby Use

Float Charging Voltage 2.25V to 2.3V Coefficient -3.0mV/°C/Cell

**Operating Temperature Range** 

Charge $-15^{\circ}$ C to  $40^{\circ}$ CDischarge $-15^{\circ}$ C to  $50^{\circ}$ CStorage $-15^{\circ}$ C to  $40^{\circ}$ C

Charge Retention (Shelf Life) at 20°C

1 month 98%
3 months 94%
6 months 85%

Case Material UL94 V-0 Flame Retardant

**Termination** F18 (M8 Bolt)

## Description of Torque Value of Hardware for the Terminals

Recommended Torque Value M8: 12 N-m (122kgf-cm) Max. Allowable Torque Value M8: 15 N-m (153kgf-cm)

Design Life

Classified as a non-spillable battery. Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road

Barcode

• Sea (per IMDG Special Provision 238)



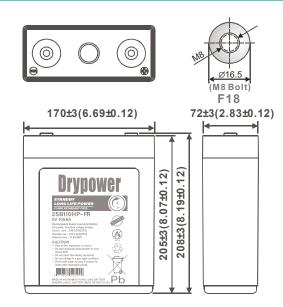
12-15 Years (at 20°C)

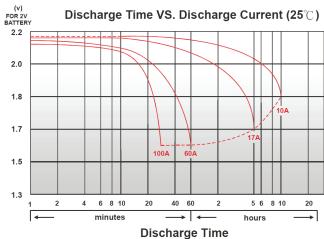




# **DIMENSIONS**

# mm (inch)

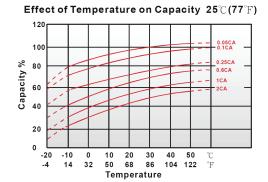


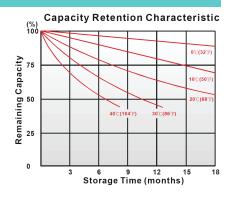


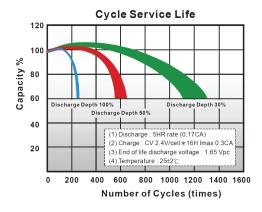
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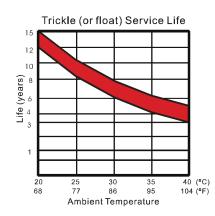


### **CHARACTERISTICS CHARTS**









### **FEATURES & BENEFITS**

- Industry leading 99.99% pure lead content for superior service life and dependable performance.
- Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- High rate discharge capable to ensure reliable performance.
- Maintenance free technology and non-spillable design.
- 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 1.65V 1.60V Time 20 155 177 196 211 223 232 min 30 min 143 163 175 185 192 198 60 min 101 108 113 118 121 124 120 74.1 min 59.1 62.8 66 69 71.6 50.9 180 42 4 45.8 48.5 55.2 57 2 min 240 37.1 39.8 42.2 44.2 45.6 46.8 min 300 40.1 min 32.8 34.7 36.3 38 39.2 360 30.5 31.7 32.7 33.5 34.3 35.1 min 27.2 480 min 23.9 24.9 25.7 26.5 27.8 22.1 23 600 22.6 min 20.1 20.8 21.4 1200 10 10.6 12.1 12.3 11 1 11 7 min

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)									
Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V		
20	min	81.9	94.5	105	114	122	127		
30	min	76.8	86.5	92.3	97.4	102	105		
60	min	46.8	52.7	56.2	58.9	61.1	63		
120	min	28.1	31.2	33.4	35.3	36.6	37.7		
180	min	22.9	24.2	25.3	26.2	27.1	27.9		
240	min	18.1	19.1	20	20.8	21.5	22.1		
300	min	15.6	16.4	17.1	17.7	18.3	18.8		
360	min	13.60	14.3	14.9	15.5	16	16.4		
480	min	11.1	11.6	12	12.3	12.7	13		
600	min	9.64	10	10.3	10.5	10.7	10.9		
1200	min	4.9	5.13	5.33	5.51	5.64	5.73		

All data on the spec. sheet is an average value:

The tolerance range:  $X < 6min (+15\% \sim -15\%)$ ,  $6min \le X < 10min (+12\% \sim -12\%)$ ,  $10min \le X < 60min (+8\% \sim -8\%)$ ,  $X \ge 60min (+5\% \sim -5\%)$ 

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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.