STANDBY LONG LIFE POWER

2SB80HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SF	PEC	IFI	CAT	10	NS
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Nominal Voltage		2V
Nominal Capacity		
20 hour rate	(4.0A to 1.75V)	80Ah
10 hour rate	(7.5A to 1.80V)	75Ah
5 hour rate	(12.75A to 1.70V)	63.75Ah
1 hour rate	(45A to 1.60V)	45Ah
1C	(75A to 1.60V)	37.5Ah

Weight Approx. 6.4kg

Internal Resistance (at 1KHz) Approx. $1.5 \text{m}\Omega$

Maximum Discharge Current (5 secs) 450A

Charge Methods at 25°C

Cycle Use Charging Voltage Coefficient -5.0mV/°C/Cell	2.4V to 2.5V
Maximum Charging Current	24A
Standby Use Float Charging Voltage	2.25V to 2.3V

Coefficient -3.0mV/°C/Cell **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

98%
94%
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)

Barcode

• Sea (per IMDG Special Provision 238)



12-15 Years (at 20°C)

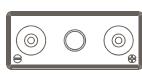


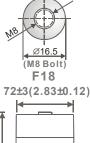


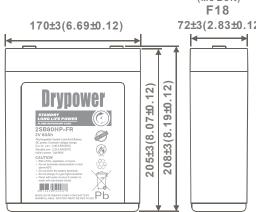


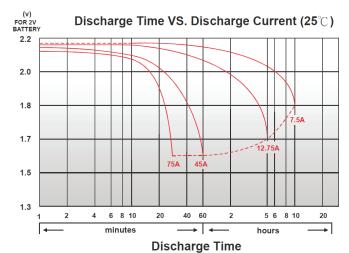
DIMENSIONS

mm (inch)



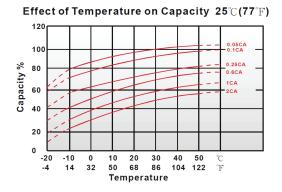


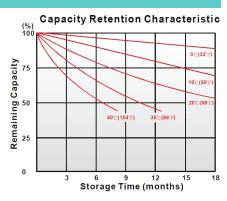


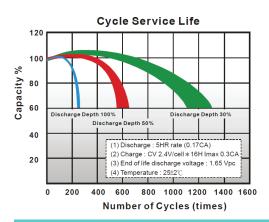


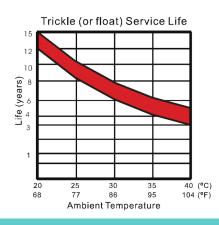


CHARACTERISTICS CHARTS









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 1.75V 1.85V 1.80V 1.70V 1.65V 1.60V Time 20 119 134 147 157 165 173 min 30 109 123 132 139 145 148 min 60 min 74.2 80.6 83.6 85.8 88.6 90.6 120 min 45.1 48.1 50.9 53.1 55 56.5 42.2 180 35 37.2 39.1 40.9 43.4 min 32.7 240 29.3 31.4 33.8 34.9 35.9 min 300 24 25.3 26.4 27.6 28.5 29.3 min 23 25.3 360 min 21 22.2 23.8 24.5 480 16.3 17.2 17.9 18.5 19 19.6 min 600 min 14.4 15 15.5 16 16.4 16.7 1200 7.79 8.44 min 7.42 8.12 8.75 8.9

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)							
ime	End Voltage	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
20	min	70.9	78.5	84.7	89.3	92.7	95.4
30	min	61.6	66.2	69.8	72.2	74.3	76
60	min	35.7	39.4	42.8	44.7	46.4	47.5
120	min	22.1	24.2	25.9	27.2	28.2	29
180	min	16.2	17.8	19.1	20.1	20.9	21.5
240	min	13.3	14.4	15.3	16.1	16.7	17.1
300	min	11.8	12.7	13.3	13.8	14.1	14.4
360	min	10.90	11.5	11.9	12.2	12.4	12.6
480	min	8.59	8.97	9.29	9.48	9.65	9.78
600	min	7.31	7.55	7.74	7.91	8.03	8.12
1200	min	3.69	3.84	3.96	4.08	4.17	4.23

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.