STANDBY LONG LIFE POWER



2SB480HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS								
Nominal Voltage	2V							
Nominal Capacity								
20 hour rate (23.75A to 1.75V)	475Ah							
10 hour rate (44.0A to 1.80V)	440Ah							
5 hour rate (74.8A to 1.70V)	374Ah							
1 hour rate (264A to 1.60V)	264Ah							
1C (440A to 1.60V)	220Ah							
Weight	Approx. 29.7kg							
20 hour rate (23.75A to 1.75V) 10 hour rate (44.0A to 1.80V) 5 hour rate (74.8A to 1.70V) 1 hour rate (264A to 1.60V) 1C (440A to 1.60V)	440Ah 374Ah 264Ah 220Ah							

Internal Resistance (at 1KHz) Approx. $0.4m\Omega$

Maximum Discharge Current (5 secs) 2640A

Charge Methods at 25°C

Cycle Use Charging Voltage 2.33V to 2.36V Coefficient -5.0mV/°C/Cell

142.5A Maximum Charging Current

Standby Use

Float Charging Voltage 2.21V to 2.25V Coefficient -3.0mV/°C/Cell

Operating Temperature Range

-15°C to 40°C Charge Discharge -15°C to 50°C -15°C to 40°C Storage

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)

12-15 Years (at 20°C) Design Life

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

- Air (IATA/ICAO provision A67)

Barcode

• Sea (per IMDG Special Provision 238)



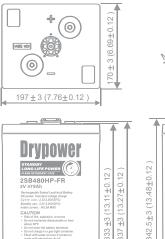






DIMENSIONS

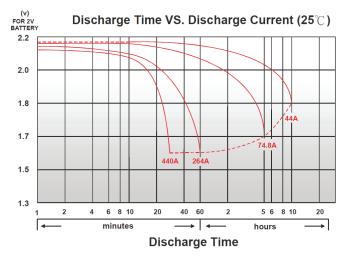
mm (inch)



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Pb



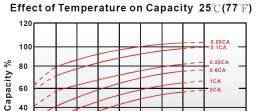


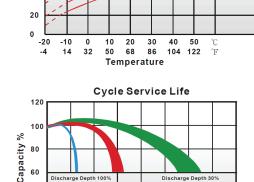
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CHARACTERISTICS CHARTS



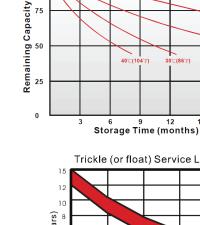


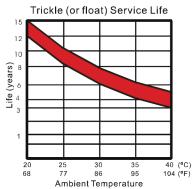
(1) Discharge : 5HR rate (0.17CA)

(2) Charge : CV 2.36V/cell *16H Imax 0.3CA (3) End of life discharge voltage : 1.65 Vpc (4) Temperature : 25±2°C

Number of Cycles (times)

800 1000 1200 1400 1600





Capacity Retention Characteristic

10°C (50°

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 1.60V 1.70V 1.65V Time 731 803 864 964 20 657 922 min 626 698 750 791 828 847 30 min 60 416 451 477 494 508 517 min 120 min 264 280 289 298 306 313 180 min 205 216 223 230 236 241 240 181 192 196 min 163 175 187 300 145 154 159 163 169 166 min 360 125 132 135 138 141 143 min 480 109 104 112 114 116 117 min 600 90.7 93.8 95.3 96.6 97.7 98.6 min 1200 min 46.5 48.2 49.3 50.2 50.8 51.2

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	368	429	472	509	538	561	
30	min	309	361	398	429	453	469	
60	min	195	219	238	254	267	277	
120	min	126	136	145	153	160	166	
180	min	96.7	104	110	115	119	123	
240	min	80.5	85.2	89.4	92.6	95.2	97.2	
300	min	67.9	72.3	76	78.9	81.1	82.9	
360	min	59.80	63.1	65.7	68.1	70.1	71.5	
480	min	50.7	52.6	54	55.2	56.3	57.1	
600	min	43.3	44.7	45.9	46.9	47.7	48.3	
1200	min	22.6	23.3	23.9	24.5	25	25.4	

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.