

Drypower

2V HIGH POWER LONG LIFE RANGE
STANDBY LONG LIFE POWER



2V

525Ah

SLA

AGM

2SB530HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage 2V

Nominal Capacity

20 hour rate	(26.25A to 1.75V)	525Ah
10 hour rate	(50A to 1.80V)	500Ah
5 hour rate	(85A to 1.70V)	425Ah
1 hour rate	(300A to 1.60V)	300Ah
1C	(500A to 1.60V)	250Ah

Weight Approx. 33.5kg

Internal Resistance (at 1KHz) Approx. 0.5mΩ

Maximum Discharge Current (5 secs) 3000A

Charge Methods at 25°C

Cycle Use

Charging Voltage 2.33V to 2.36V

Coefficient -5.0mV/°C/Cell

Maximum Charging Current 157.5A

Standby Use

Float Charging Voltage 2.21V to 2.25V

Coefficient -3.0mV/°C/Cell

Operating Temperature Range

Charge -15°C to 50°C*

Discharge -15°C to 50°C

Storage -15°C to 40°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 12-15 Years (at 20°C)

Classified as a non-spillable battery.

Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)



Barcode



9319632521045

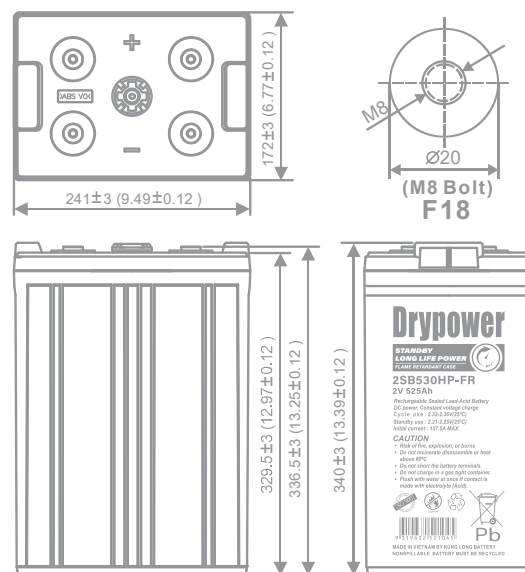
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.



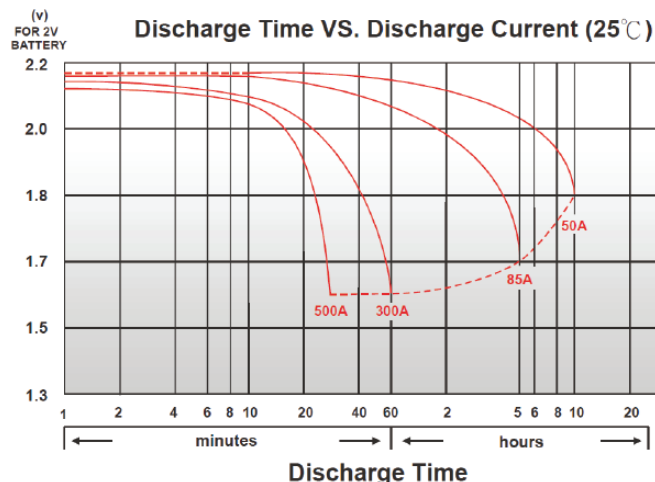
UL94 V-0
FLAME RETARDANT
CASE

DIMENSIONS

mm (inch)

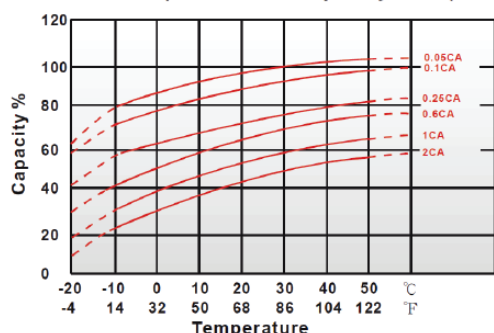


Discharge Time VS. Discharge Current (25°C)

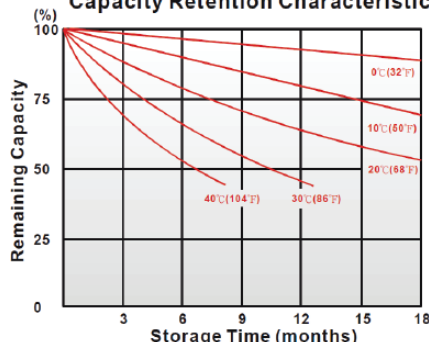


CHARACTERISTICS CHARTS

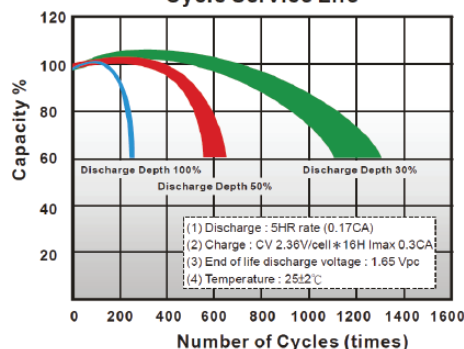
Effect of Temperature on Capacity 25°C (77°F)



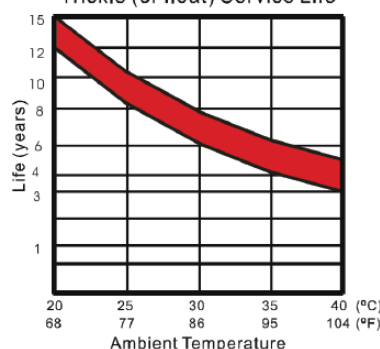
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ 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	min	895	980	1072	1135	1200	1266
30	min	757	830	910	958	1005	1045
60	min	518	553	599	612	629	640
120	min	324	341	358	360	365	369
180	min	244	255	267	275	285	292
240	min	179	188	198	207	212	216
300	min	157	166	173	178	182	185
480	min	113	118	123	125	127	129
600	min	94.7	97	99	102	103	104
1200	min	51.6	53.2	54.4	55.1	55.5	55.9

Discharge Rates in Amperes 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	min	517	575	628	670	693	715
30	min	419	471	524	571	613	644
60	min	277	305	330	347	364	377
120	min	170	193	210	218	226	233
180	min	125	134	142	148	154	160
240	min	106	113	118	121	124	127
300	min	82.1	87.8	93.5	95.9	96.9	97.5
480	min	58.30	60.3	62.1	62.7	63.3	63.7
600	min	48.3	50	50.4	50.6	50.8	51
1200	min	24.9	25.8	26.2	26.5	26.8	27.1

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

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+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.