Drypower

2V HIGH POWER LONG LIFE RANGE

STANDBY LONG LIFE POWER

2V **425Ah** **SLA** **AGM**

2SB430HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		2V
Nominal Capacity		
20 hour rate	(21.25A to 1.75V)	425Ah
10 hour rate	(40A to 1.80V)	400Ah
5 hour rate	(68A to 1.70V)	340Ah
1 hour rate	(240A to 1.60V)	240Ah
1C	(400A to 1.60V)	200Ah
Weight		Approx. 25.5kg
Internal Resistance (at 1KHz)		Approx. 0.45mΩ
Maximum Discharge Current (5 secs)		2400A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		2.33V to 2.36V
Maximum Charging Current		127.5A
Standby Use		
Float Charging Voltage Coefficient -3.0mV/°C/Cell		2.21V to 2.25V
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		
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)

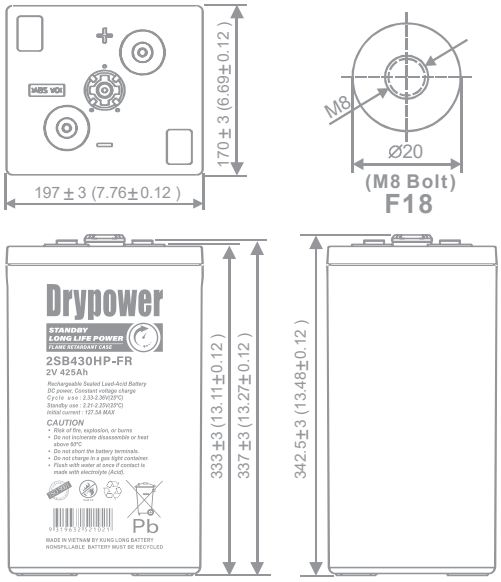
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

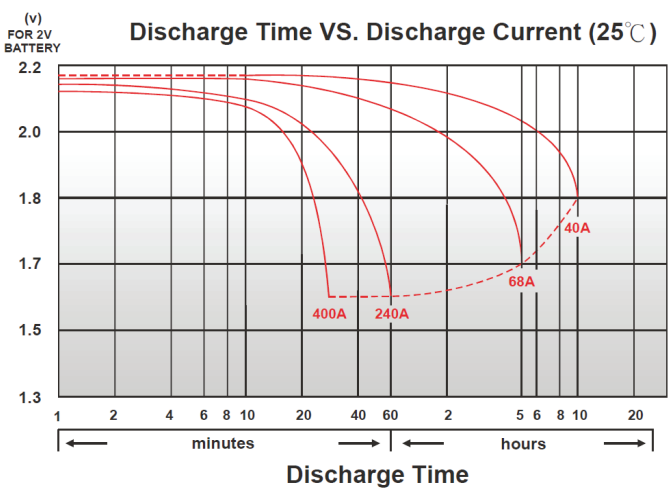
IATA

Barcode	9319632521021

UL94 V-0
FLAME RETARDANT CASE

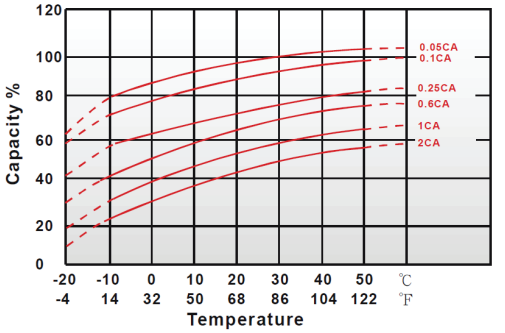
DIMENSIONS mm (inch)



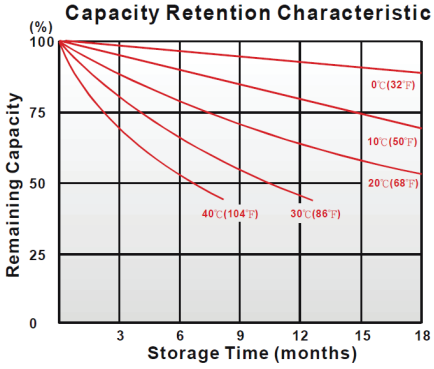


CHARACTERISTICS CHARTS

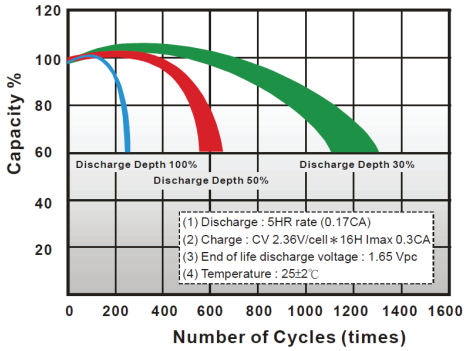
Effect of Temperature on Capacity 25℃(77℉)



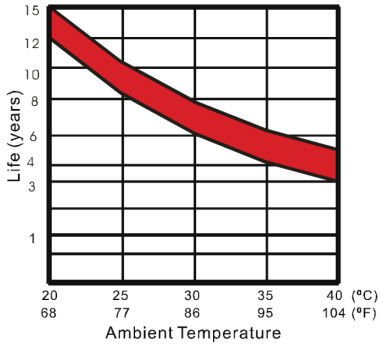
Capacity Retention Characteristic



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)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
20	min	614	693	762	826	884	926
30	min	563	635	687	728	765	784
60	min	371	406	432	449	463	472
120	min	242	257	266	275	283	290
180	min	183	194	201	208	214	219
240	min	145	157	163	169	174	178
300	min	128	137	142	146	149	152
360	min	109	116	119	122	125	127
480	min	89.5	95.3	98.1	100	102	103
600	min	77.8	80.9	82.4	83.7	84.8	85.7
1200	min	41.4	43.1	44.2	45.1	45.7	46.1

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	338	391	432	470	502	521
30	min	289	331	363	391	412	426
60	min	186	205	219	231	243	252
120	min	119	128	136	143	150	155
180	min	91.5	98.1	103	107	111	114
240	min	71.8	75.9	80.7	84.1	86.8	88.5
300	min	61.6	65.1	68.4	71.5	73.7	75.3
360	min	55.70	58.6	61.2	63.5	65.4	66.7
480	min	44.2	46.5	48.1	49.6	51	51.9
600	min	38.3	40	41.5	42.6	43.4	43.9
1200	min	20.2	20.9	21.4	21.9	22.3	22.6

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%)

Aug2020