



2V

215Ah

SLA

AGM

2SB220HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage 2V

Nominal Capacity

20 hour rate	(10.75A to 1.75V)	215Ah
10 hour rate	(20A to 1.80V)	200Ah
5 hour rate	(34A to 1.70V)	170Ah
1 hour rate	(120A to 1.60V)	120Ah
1C	(200A to 1.60V)	100Ah

Weight Approx. 14kg

Internal Resistance (at 1KHz) Approx. 0.8mΩ

Maximum Discharge Current (5 secs) 1200A

Charge Methods at 25°C

Cycle Use

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

Maximum Charging Current 64.5A

Standby Use

Float Charging Voltage 2.21V to 2.25V
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

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

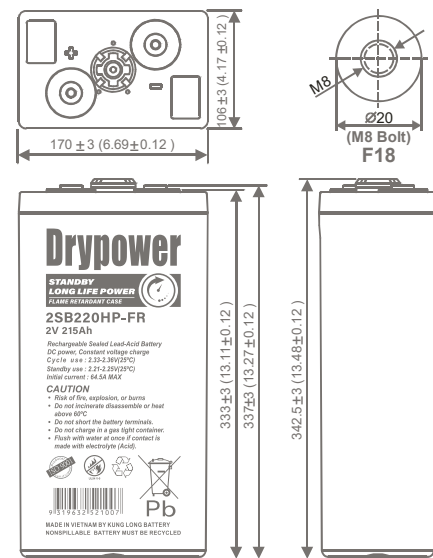


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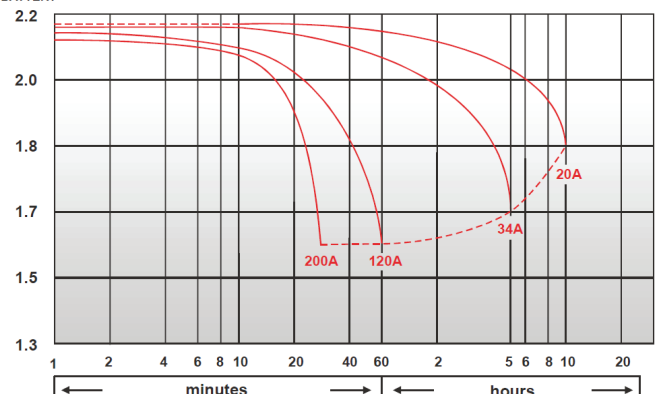
DIMENSIONS

mm (inch)



(V)
FOR 2V
BATTERY

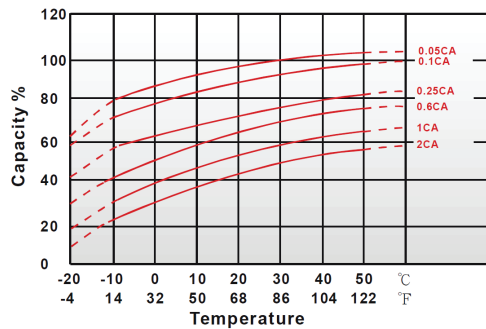
Discharge Time VS. Discharge Current (25°C)



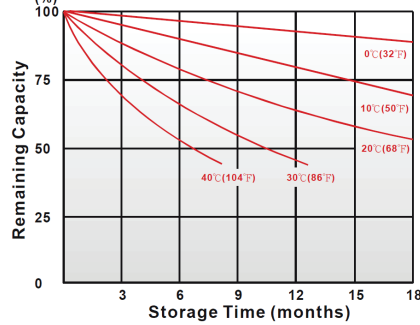
Discharge Time

CHARACTERISTICS CHARTS

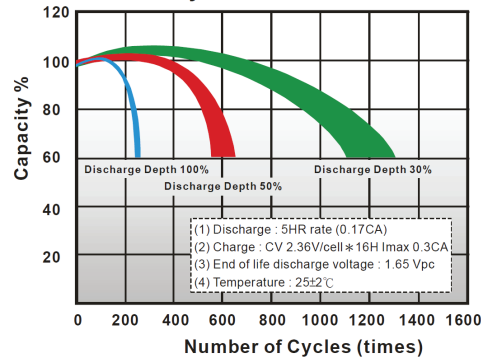
Effect of Temperature on Capacity 25°C (77°F)



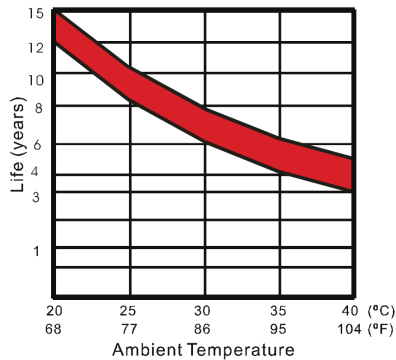
Capacity Retention Characteristic



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	307	348	383	414	439	458
30	min	283	297	324	347	364	379
60	min	184	203	212	221	229	236
120	min	107	116	123	130	136	141
180	min	87.9	94.3	99.4	103	106	109
240	min	75.2	79.9	82.8	85.4	87.5	89.4
300	min	66.5	69.3	71.6	73.5	75.2	76.5
360	min	59.3	61.2	62.9	64.4	65.6	66.7
480	min	47.2	48.8	50.1	51.2	52.1	52.8
600	min	42.4	43.9	45.1	46	46.7	47.2
1200	min	20.3	21.2	21.9	22.5	23	23.3

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	162	182	205	226	243	254
30	min	157	178	191	201	210	217
60	min	92.7	103	110	117	122	126
120	min	61.4	64.9	68.1	70.7	73.2	75.3
180	min	46.3	48.5	50.7	52.6	54.3	55.8
240	min	36.5	38.7	40.4	41.9	43.2	44.3
300	min	31	32.8	34.3	35.6	36.7	37.7
360	min	28.40	30.2	30.9	31.6	32.2	32.8
480	min	22.9	24	24.6	25.1	25.5	25.9
600	min	19.2	20	20.5	20.9	21.3	21.6
1200	min	9.8	10.3	10.7	11	11.2	11.4

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.