

Drypower

2V HIGH POWER LONG LIFE RANGE
STANDBY LONG LIFE POWER



2V

475Ah

SLA

AGM

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

Internal Resistance (at 1KHz) Approx. 0.4mΩ

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

Maximum Charging Current 142.5A

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



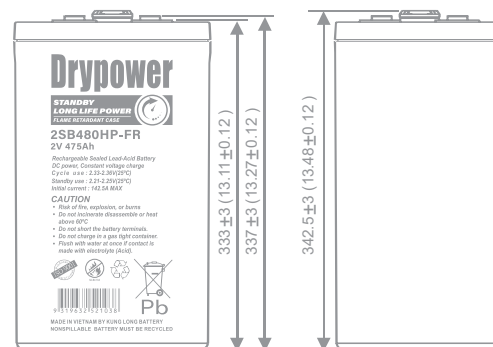
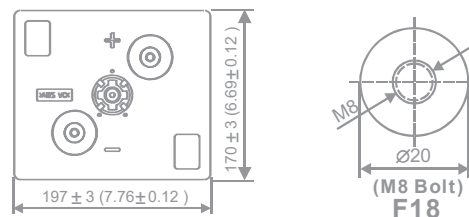
9319632521038

* 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.

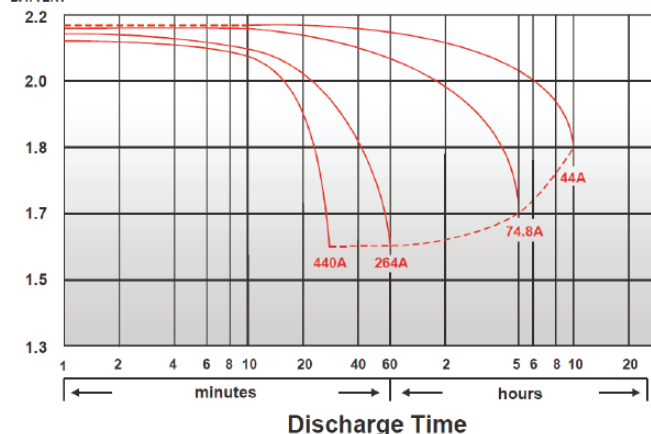


DIMENSIONS

mm (inch)

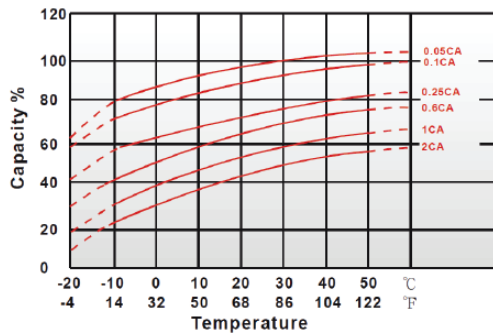


Discharge Time VS. Discharge Current (25°C)

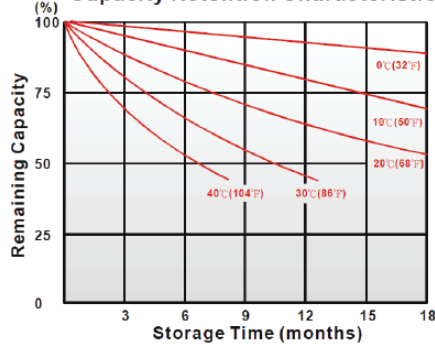


CHARACTERISTICS CHARTS

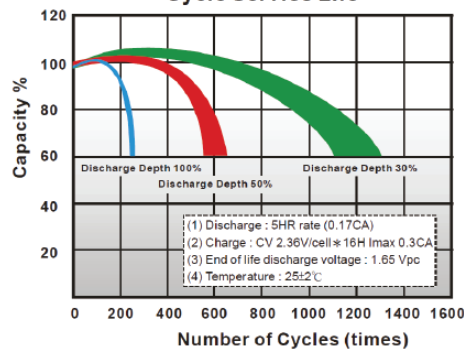
Effect of Temperature on Capacity 25°C(77°F)



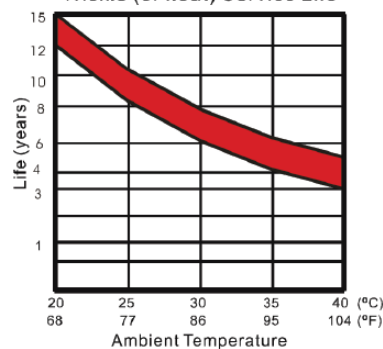
Capacity Retention Characteristic



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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time							
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%~-15%), 6min ≤ X < 10min (+12%~-12%), 10min ≤ X < 60min (+8%~-8%), X ≥ 60min (+5%~-5%)

Sep2026

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.