Drypower

2V HIGH POWER LONG LIFE RANGE

STANDBY LONG LIFE POWER

2V **475Ah** **SLA** **AGM**

2SB480HP-FR

Rechargeable AGM Sealed Lead Acid Battery

UL94 V-0
FLAME RETARDANT CASE

SPECIFICATIONS

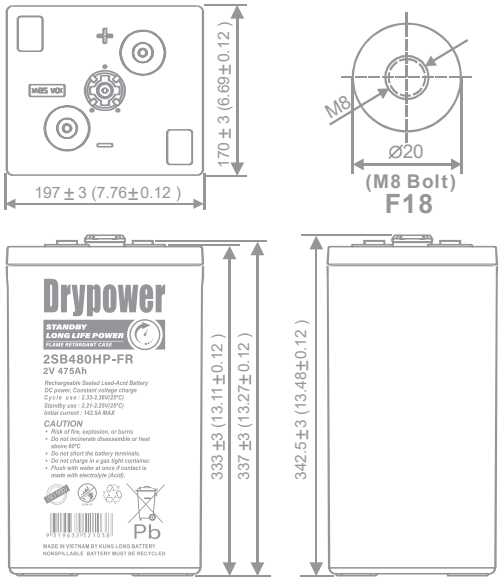
Nominal Voltage		2V
Nominal Capacity		
20 hour rate	(23.75A to 1.75V)	475Ah
10 hour rate	(44.0A to 1.80V)	440Ah
5 hour rate	(74.8A to 1.70V)	374Ah
1 hour rate	(264A to 1.60V)	264Ah
1C	(440A to 1.60V)	220Ah
Weight		Approx. 29.7kg
Internal Resistance (at 1KHz)		Approx. 0.4mΩ
Maximum Discharge Current (5 secs)		2640A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		2.33V to 2.36V
Maximum Charging Current		142.5A
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)

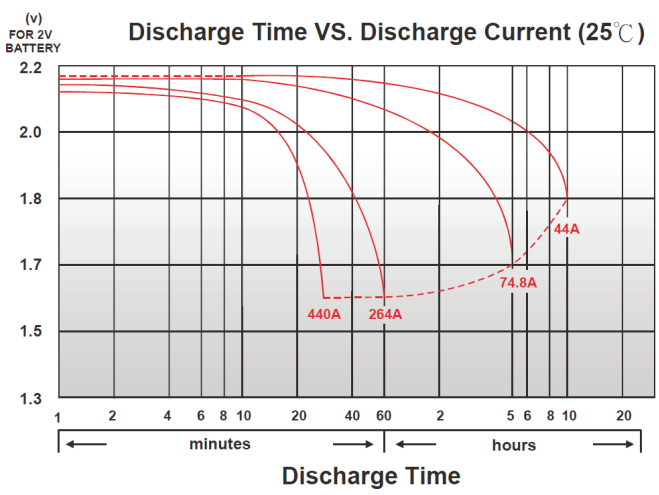
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode	9319632521038

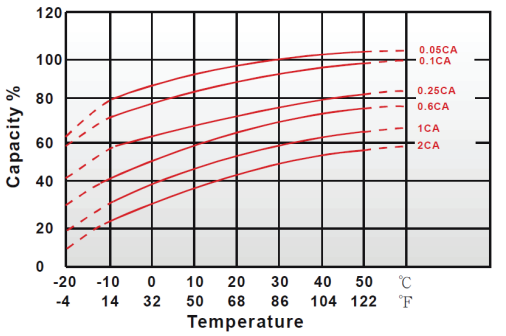
DIMENSIONS mm (inch)



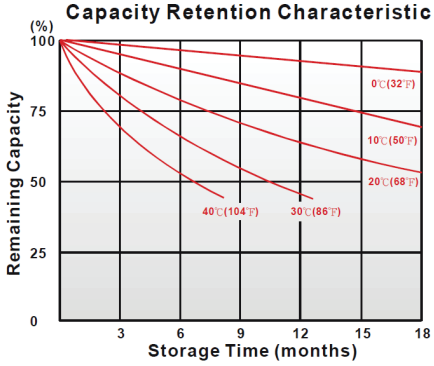


CHARACTERISTICS CHARTS

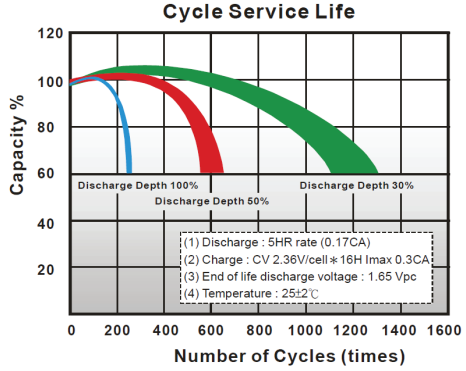
Effect of Temperature on Capacity 25℃(77℉)



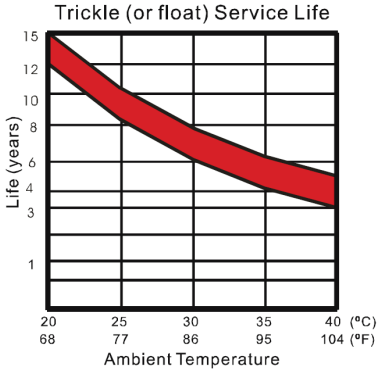
Capacity Retention Characteristic



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	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)

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%~–15%), 6min ≤ X < 10min (+12%~–12%), 10min ≤ X < 60min (+8%~–8%), X ≥ 60min (+5%~–5%)

Aug2020