



12V

120Ah

SLA

CYCLIC
AGM

12SB120CL-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage 12V

Nominal Capacity

20 hour rate	(6.00A to 9.60V)	120Ah
10 hour rate	(11.0A to 10.80V)	110Ah
5 hour rate	(18.7A to 10.20V)	93.5Ah
1 hour rate	(66A to 9.60V)	66Ah
1C	(110A to 9.60V)	69.67Ah

Weight Approx. 32.5kg

Internal Resistance (at 1KHz) Approx. 5mΩ

Maximum Discharge Current (5 secs) 1200A

Charge Methods at 25°C

Cycle Use

Charging Voltage	14.4V to 15.0V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	36A

Standby Use

Float Charging Voltage	13.5V to 13.8V
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 F8 (M6 Bolt)

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	M6: 7 N-m (71kgf-cm)
Max. Allowable Torque Value	M6: 9 N-m (92kgf-cm)

Design Life 12 years

Classified as a non-spillable battery.

Approved for transportation by:

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



Barcode



9319632520178

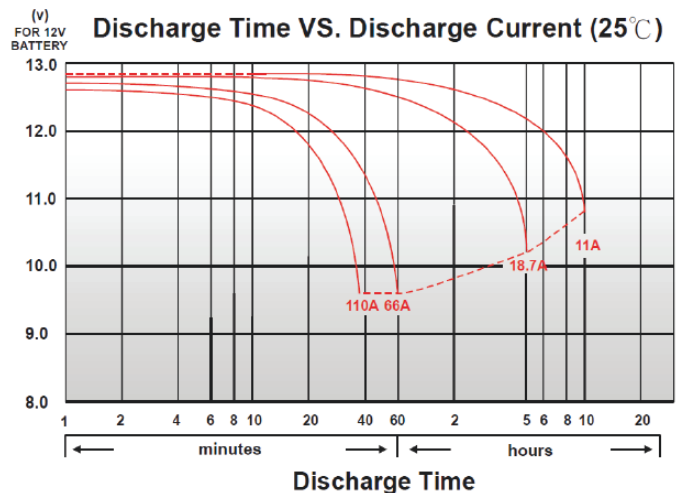
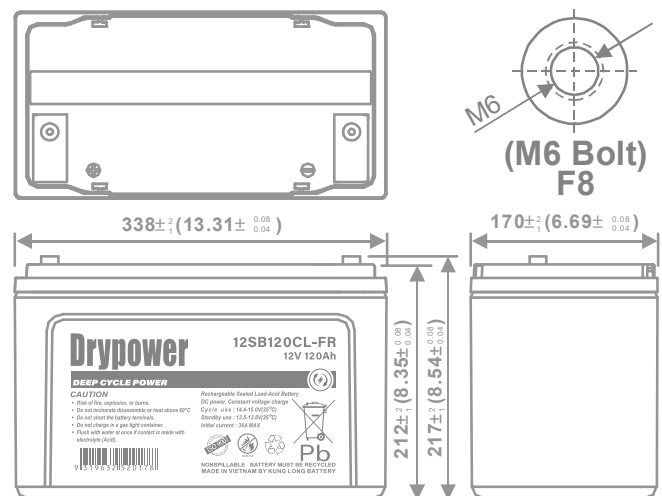
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.



UL94 V-0
FLAME RETARDANT
CASE

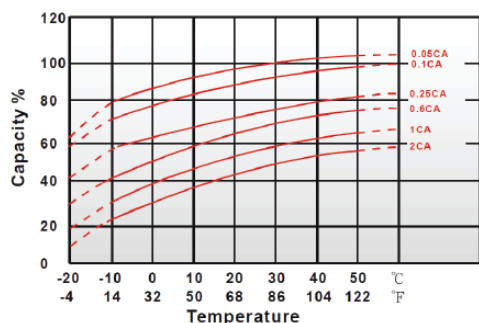
DIMENSIONS

mm (inch)

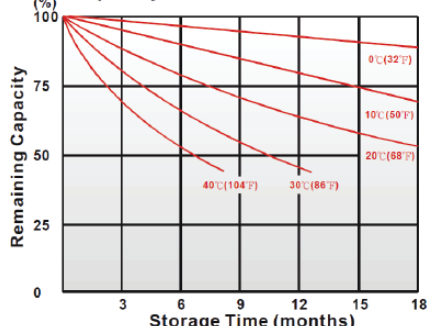


CHARACTERISTICS CHARTS

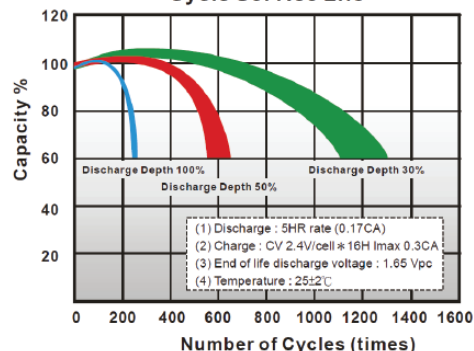
Effect of Temperature on Capacity 25°C (77°F)



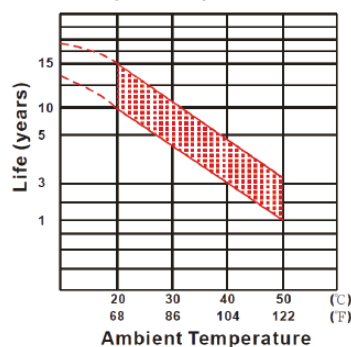
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ♦ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ♦ Special grid frame alloy design with outstanding anti-corrosion performance.
- ♦ Maintenance free technology and non-spillable design.
- ♦ Suitable for use in any orientation (except inverted) for use in hard to reach locations.
- ♦ Higher percentage of tin content compared with the industry standard. Tin extends battery standby life by minimising sulphation (corrosion) especially at higher temperatures.
- ♦ 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	1.67V	1.65V	1.60V
Time								
10	min	393	429	469	498	499	512	515
15	min	336	364	380	400	404	416	419
30	min	208	220	229	238	241	246	248
60	min	142	142	142	143	145	146	147
90	min	92.6	97.4	101	104	105	107	108
120	min	75.8	79.7	82.5	84.2	85.2	86.5	87.3
180	min	56.7	59.7	61.3	62.2	62.8	63.7	64.4
240	min	40	42.2	46.7	47.5	48.4	49.3	49.8
300	min	36.5	38.9	40	40.8	41.30	42	42.3
600	min	19.1	21.1	21.6	22.2	22.60	22.7	22.8
1200	min	11.1	11.4	11.7	11.9	12.1	12.1	12.2

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
10	min	220	232	245	254	260	270	285
15	min	177	194	214	220	224	232	241
30	min	118	123	126	128	130	131	133
60	min	57	60.2	64	67.3	69.4	70.2	72
90	min	40	43.2	45.4	46.3	47.2	48.6	49.8
120	min	27.6	32.1	35.6	39.1	39.9	40.9	42.2
180	min	23.7	26.3	31	32.8	33.3	34	35
240	min	20.20	21.5	22.8	23.2	23.5	24	24.5
300	min	16.9	17.4	18.5	19.2	19.7	19.9	20.2
600	min	10.3	11	11	11.1	11.2	11.2	11.2
1200	min	5.45	5.62	5.7	5.8	5.9	5.9	6

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.