



12V

2Ah

SLA

AGM

LB-VWVBM10

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate	(0.105A to 10.50V)	2.1Ah
10 hour rate	(0.2A to 10.50V)	2.0Ah
5 hour rate	(0.357A to 10.20V)	1.79Ah
1C	(2.1A to 9.60V)	0.95Ah
Weight	Approx. 714g	
Internal Resistance (at 1KHz)	Approx. 59mΩ	
Temperature Resistance from Thermal Protector	65±5°C	
Maximum Current Resistance	10A	

Charge Methods at 25°C

Cycle Use

Charging Voltage 14.4V to 15.0V
Coefficient -5.0mV/°C/Cell

Maximum Charging Current 0.63A

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	92%
3 months	90%
6 months	80%

Case Material	ABS UL94 HB
Termination	F13
Design Life	3-5 years

Classified as a non-spillable battery.

Approved for transportation by:

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



Barcode



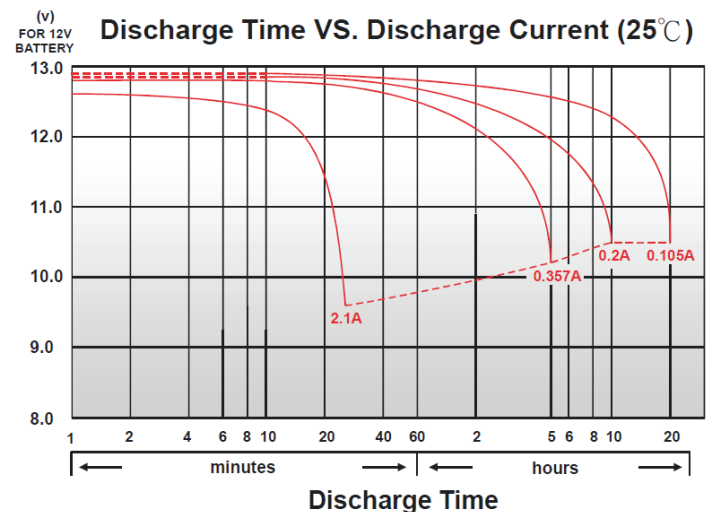
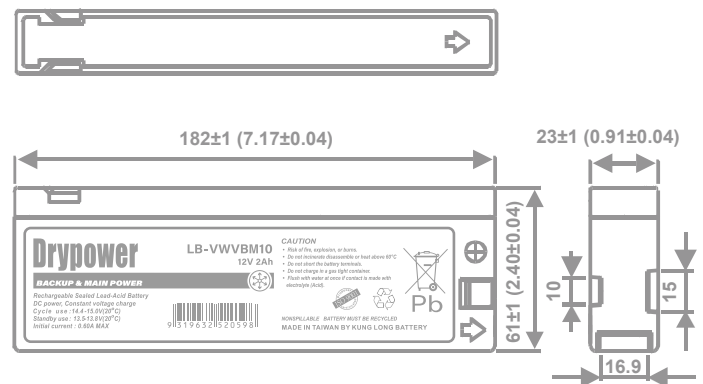
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* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at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



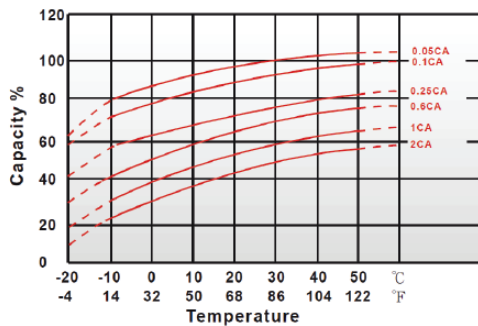
DIMENSIONS

mm (inch)

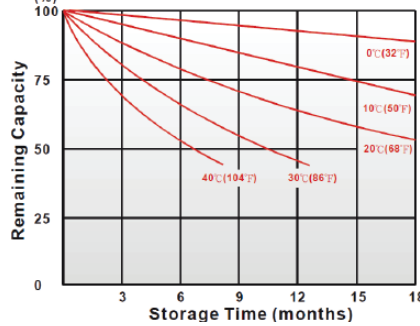


CHARACTERISTICS CHARTS

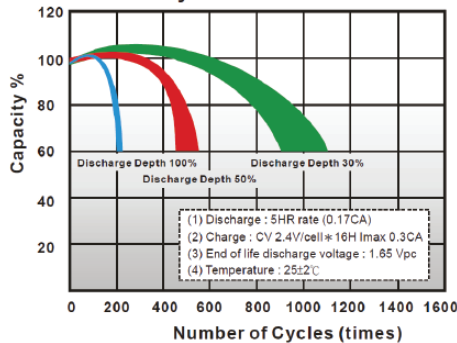
Effect of Temperature on Capacity 25°C (77°F)



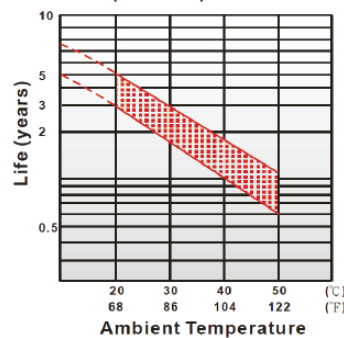
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ♦ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ♦ Maintenance free technology and non-spillable design.
- ♦ Excellent charge retention in storage.
- ♦ 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								
5	min	9.45	10.9	11.9	12.8	13.1	13.5	14
10	min	7.77	8.52	9.03	9.5	9.7	9.92	10.3
15	min	7	7.22	7.52	7.77	7.87	7.98	8.13
30	min	4	4.27	4.47	4.62	4.67	4.73	4.82
60	min	2.47	2.68	2.77	2.83	2.88	2.95	3.05
120	min	1.29	1.4	1.46	1.5	1.53	1.56	1.61
180	min	0.92	0.998	1.06	1.13	1.15	1.18	1.22
240	min	0.703	0.768	0.812	0.84	0.86	0.882	0.915
300	min	0.535	0.597	0.648	0.695	0.713	0.733	0.762
600	min	0.342	0.378	0.397	0.408	0.417	0.428	0.445
1200	min	0.203	0.215	0.223	0.23	0.232	0.235	0.238

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								
5	min	5.33	5.97	6.55	7.04	7.26	7.51	7.82
10	min	3.65	4.16	4.58	4.97	5.14	5.33	5.54
15	min	3.23	3.6	3.86	4.07	4.16	4.25	4.36
30	min	1.78	2.06	2.27	2.46	2.53	2.61	2.69
60	min	1.18	1.29	1.36	1.42	1.44	1.47	1.51
120	min	0.63	0.681	0.725	0.766	0.783	0.802	0.824
180	min	0.442	0.49	0.532	0.566	0.578	0.59	0.604
240	min	0.353	0.396	0.414	0.43	0.435	0.441	0.45
300	min	0.316	0.338	0.351	0.362	0.366	0.37	0.375
600	min	0.185	0.197	0.204	0.21	0.212	0.215	0.218
1200	min	0.094	0.101	0.106	0.111	0.113	0.115	0.117

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%)

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