

Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

GEL

12V

100Ah

SLA

GEL
Deep Cycle

12GB100C

Rechargeable Hybrid Gel Lead Acid Battery

SPECIFICATIONS

Nominal Voltage 12V

Nominal Capacity

10 hour rate	(10A to 10.50V)	100Ah
5 hour rate	(17A to 10.20V)	85Ah
1 hour rate	(55A to 9.60V)	55Ah
1C	(100A to 9.60V)	53.33Ah

Weight Approx. 34kg

Internal Resistance (at 1KHz) Approx. 4mΩ

Maximum Discharge Current (5 secs) 1200A

Charge Methods at 25°C

Cycle Use

Charging Voltage 13.8V to 14.4V

Coefficient -5.0mV/°C/Cell

Maximum Charging Current 30A

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 ABS UL94 HB

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

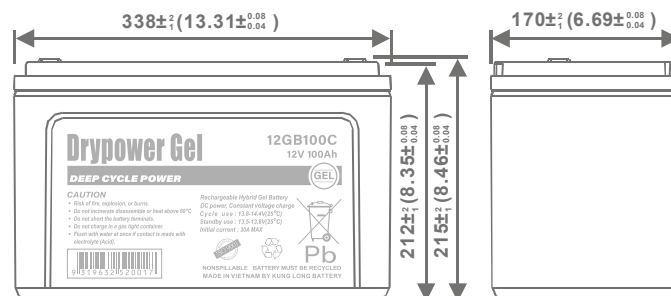
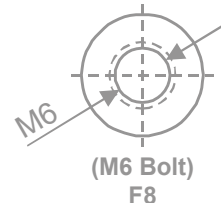
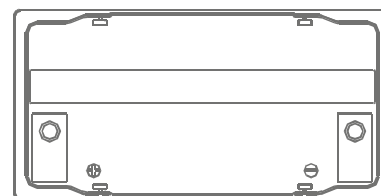


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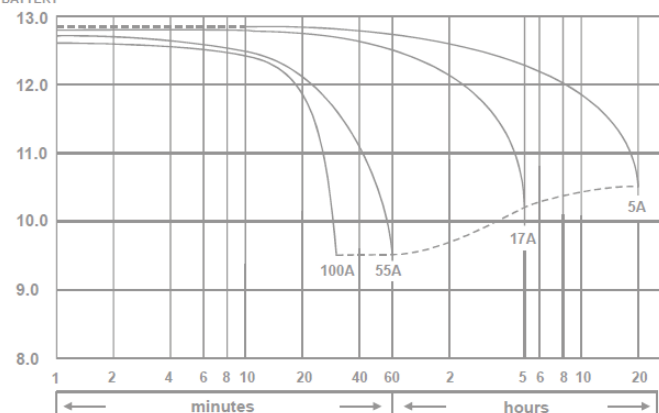
DIMENSIONS

mm (inch)



(v)
FOR 12V
BATTERY

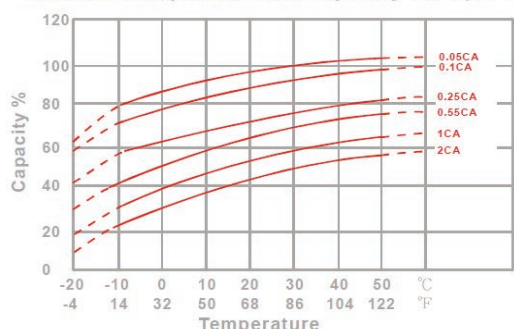
Discharge Time VS. Discharge Current (25°C)



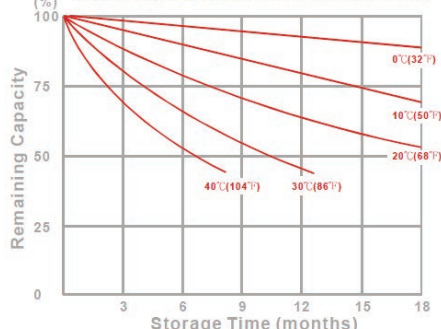
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

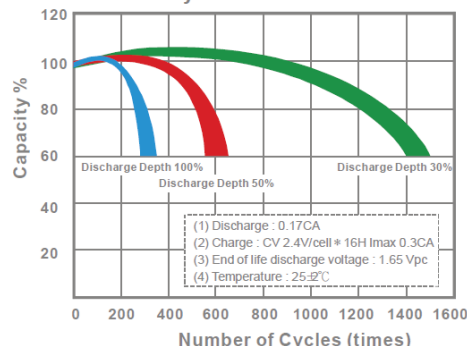
Effect of Temperature on Capacity 25°C(77°F)



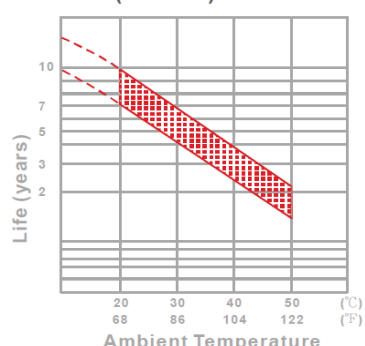
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ♦ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ♦ Gel compound contains more electrolyte that is more evenly distributed across the battery, producing stable output throughout its service life, minimising sulphation and significantly improving standby life.
- ♦ Low internal resistance for optimum charge and discharge efficiency.
- ♦ Maintenance free technology and non-spillable design.
- ♦ Better suited for more extreme operating 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	460	508	541	573	587	603	632
10	min	310	339	363	385	395	406	426
15	min	244	266	283	299	306	314	328
30	min	144	153	162	169	172	176	183
60	min	108	112	115	117	118	120	121
120	min	58.6	61.5	63.9	65.3	66.2	67.3	68.7
180	min	45.4	47.7	49.8	50.1	50.8	51.8	52.9
240	min	32.9	34.9	36.7	38.6	39.2	40	40.9
300	min	30.6	32	33.3	34.2	34.50	35	35.6
600	min	18.2	19.3	20.1	20.9	21.20	21.5	21.9
1200	min	10	10.4	10.6	10.8	10.9	11	11.1

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	188	247	281	309	318	329	344
10	min	141	167	186	202	209	217	230
15	min	104	129	146	158	163	168	176
30	min	78.1	88.7	95.2	100	101	103	105
60	min	40.2	47.8	53.1	56.9	57.8	59.1	60.9
120	min	22.4	26.2	29.2	32.1	32.8	33.7	34.8
180	min	19.3	21.5	23.2	24.6	25	25.6	26.3
240	min	15.40	17.1	18.3	19.2	19.4	19.8	20.3
300	min	14.5	15.7	16.5	17	17.2	17.4	17.7
600	min	9.6	9.88	10.1	10.3	10.4	10.5	10.7
1200	min	4.83	4.99	5.15	5.26	5.31	5.37	5.44

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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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.