

Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

GEL

12V

75Ah

SLA

GEL
Deep Cycle

12GB75C

Rechargeable Hybrid Gel Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	
10 hour rate (7.50A to 10.50V)	75Ah
5 hour rate (12.75A to 10.20V)	63.75Ah
1 hour rate (41.25A to 9.60V)	41.25Ah
1C (75A to 9.60V)	40Ah
Weight	Approx. 24.8kg
Internal Resistance (at 1KHz)	Approx. 7.5mΩ
Maximum Discharge Current (5 secs)	900A
Charge Methods at 25°C	
Cycle Use	
Charging Voltage	13.8V to 14.4V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	22.5A
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	7-10 years
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Classified as a non-spillable battery.

Approved for transportation by:

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



Barcode

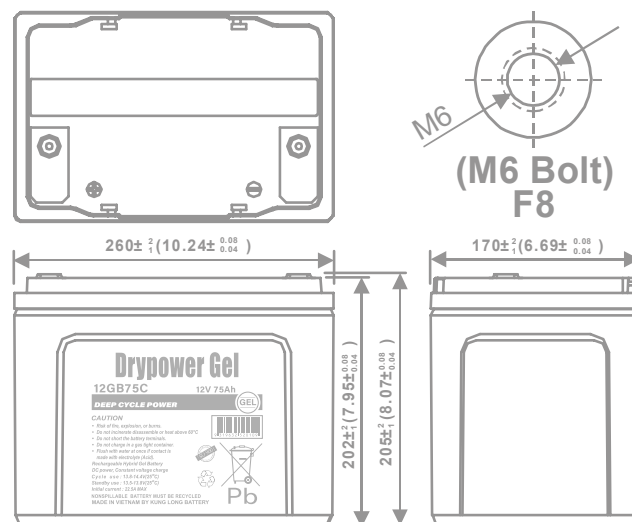


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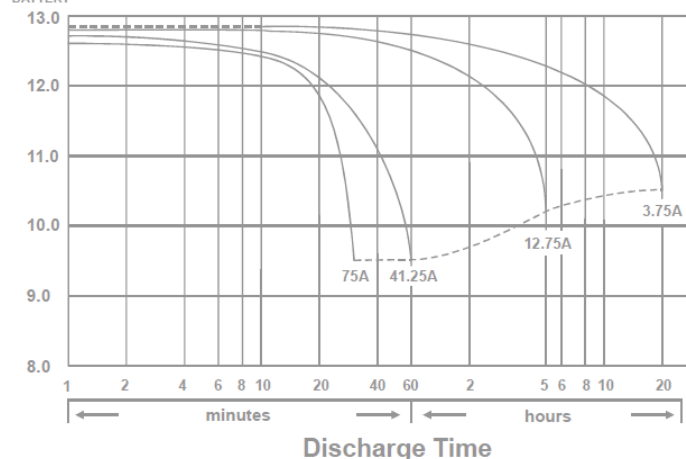
DIMENSIONS

mm (inch)



(V)
FOR 12V
BATTERY

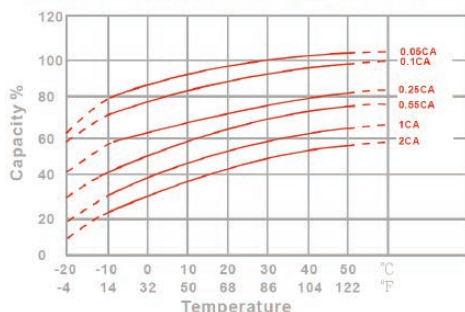
Discharge Time VS. Discharge Current (25°C)



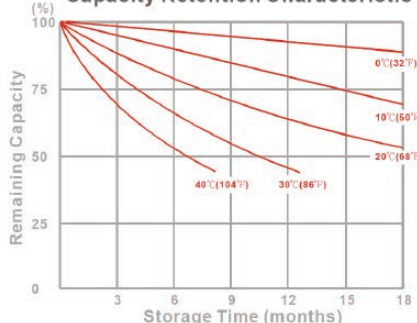
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

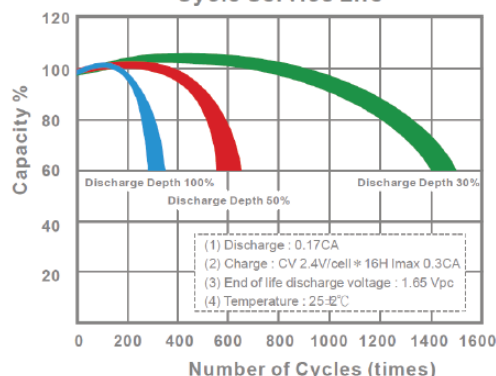
Effect of Temperature on Capacity 25°C(77°F)



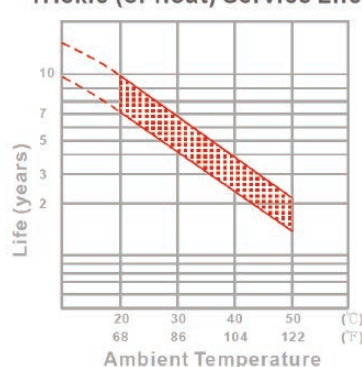
Capacity Retention Characteristic



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	366	386	442	469	483	497	510
10	min	251	264	303	321	331	340	349
15	min	160	203	216	247	252	258	264
30	min	125	134	139	143	144	146	149
60	min	75.2	79.4	81.7	83.5	84.2	84.9	85.9
120	min	43.9	46.3	47.7	49	49.4	49.9	50.5
180	min	31.6	33.3	34.3	35	35.3	35.7	36.1
240	min	25.7	26.8	27.6	28.2	28.4	28.7	29
300	min	22.5	23.5	24.2	24.7	24.90	25	25.2
600	min	14.3	14.4	14.6	14.7	14.70	14.8	14.9
1200	min	7.46	7.57	7.66	7.74	7.79	7.82	7.87

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	160	193	221	245	253	263	274
10	min	101	129	150	167	173	179	186
15	min	81.5	98.1	112	124	127	131	135
30	min	56.9	65.3	71.5	76.1	77	78.5	80.1
60	min	37.5	40.2	41.9	43.3	43.7	44.3	45
120	min	18.8	20.8	22.2	23.3	23.6	24	24.5
180	min	14.7	16.2	17.1	17.9	18.2	18.6	19
240	min	12.10	12.9	13.7	14.2	14.5	14.8	15.1
300	min	11.4	12.1	12.5	12.8	13	13.2	13.5
600	min	7.02	7.15	7.26	7.35	7.37	7.42	7.46
1200	min	3.67	3.73	3.78	3.82	3.83	3.85	3.87

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.