

Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

GEL

12V

20Ah

SLA

GEL
Deep Cycle

12GB20C

Rechargeable Hybrid Gel Lead Acid Battery

SPECIFICATIONS

Nominal Voltage 12V

Nominal Capacity

20 hour rate	(1.0A to 10.50V)	20Ah
5 hour rate	(3.4A to 10.20V)	17Ah
1 hour rate	(11A to 9.60V)	11Ah
1C	(20A to 9.60V)	10.67Ah

Weight Approx. 6.7kg

Internal Resistance (at 1KHz) Approx. 8mΩ

Maximum Discharge Current (5 secs) 300A

Charge Methods at 25°C

Cycle Use

Charging Voltage 13.8V to 14.4V

Coefficient -5.0mV/°C/Cell

Maximum Charging Current 6A

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 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

Classified as a non-spillable battery.

Approved for transportation by:

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



Barcode

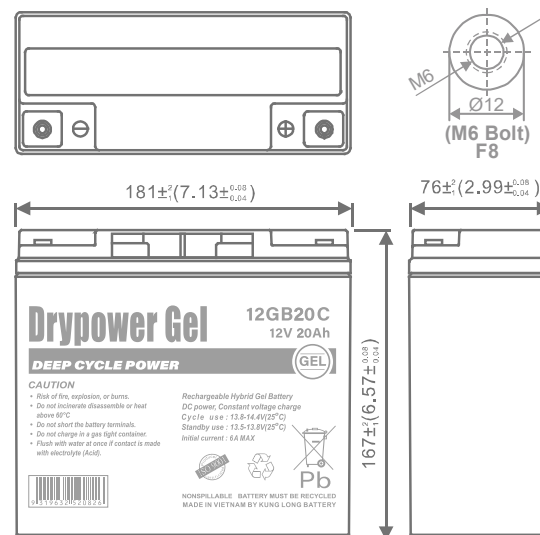


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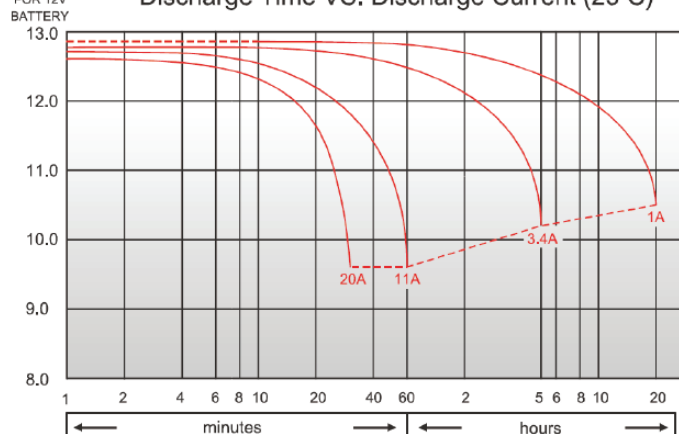


DIMENSIONS

mm (inch)



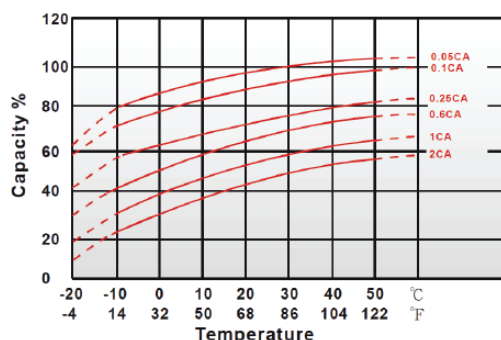
Discharge Time VS. Discharge Current (25°C)



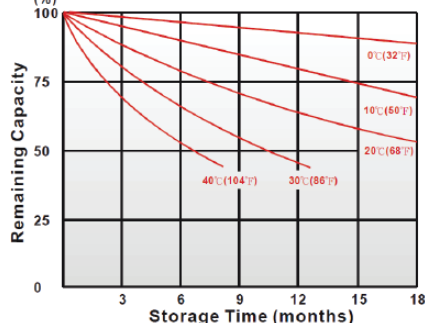
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

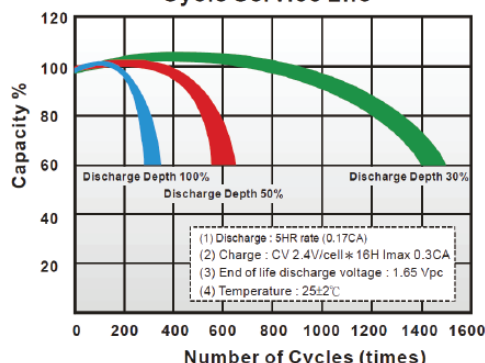
Effect of Temperature on Capacity 25°C (77°F)



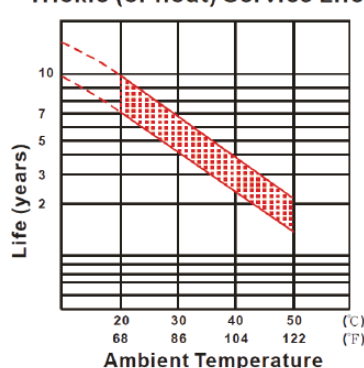
Capacity Retention Characteristic



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	101	121	132	139	141	143	145
10	min	75.3	85.9	93	95.2	96.3	97.5	99
15	min	63.5	71	76.5	79.3	80.1	81	81.9
30	min	33.8	36.1	38.6	40.1	40.5	41	41.4
60	min	20.9	21.5	22.3	24	24.1	24.4	24.7
120	min	12.1	12.6	12.9	13.4	13.5	13.6	13.7
180	min	8.95	9.58	9.8	10	10.1	10.2	10.3
240	min	7.4	7.69	7.88	8	8.06	8.1	8.14
300	min	6.45	6.67	6.79	6.89	6.92	6.96	7.02
600	min	3.68	3.78	3.84	3.86	3.89	3.92	3.95
1200	min	1.92	1.95	1.98	2.01	2.03	2.05	2.06

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	64.2	71.7	75.2	78.3	79.5	80.9	83.2
10	min	44.4	47.4	49.9	51.9	52.8	53.7	55.3
15	min	34.7	37.2	38.8	40.3	40.9	41.4	42.3
30	min	17.9	19.4	20.5	21.3	21.5	21.9	22.5
60	min	10.7	11.5	12.1	12.3	12.4	12.5	12.6
120	min	6.06	6.28	6.41	6.53	6.57	6.62	6.68
180	min	4.5	4.75	4.85	4.93	4.96	5	5.05
240	min	3.76	3.85	3.92	3.97	3.99	4.02	4.04
300	min	3.31	3.38	3.42	3.46	3.47	3.49	3.51
600	min	1.89	1.92	1.93	1.95	1.96	1.97	1.98
1200	min	0.96	0.99	1	1.01	1.02	1.03	1.04

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.