

# Drypower Gel

HYBRID GEL TYPE  
**DEEP CYCLE POWER**

GEL

12V

36Ah

SLA

GEL  
Deep Cycle

## 12GB36C

Rechargeable Hybrid Gel Lead Acid Battery

### SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate	(1.80A to 10.50V)	36Ah
5 hour rate	(6.12A to 10.20V)	30.6Ah
1 hour rate	(19.8A to 9.60V)	19.8Ah
1C	(36A to 9.60V)	19.2Ah
Weight	Approx. 10.7kg	
Internal Resistance (at 1KHz)	Approx. 4mΩ	
Maximum Discharge Current (5 secs)	540A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	13.8V to 14.4V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	10.8A	
Standby Use		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Operating Temperature Range		
Charge	-15°C to 40°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
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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

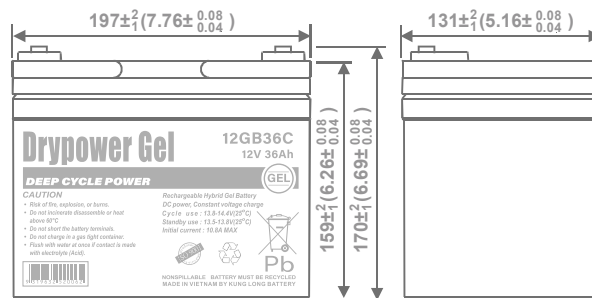
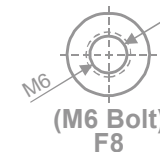
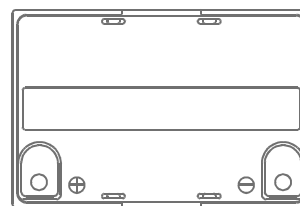


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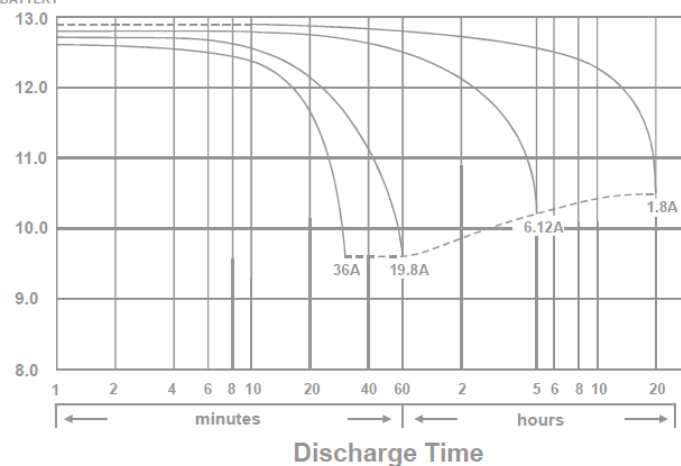
### DIMENSIONS

mm (inch)



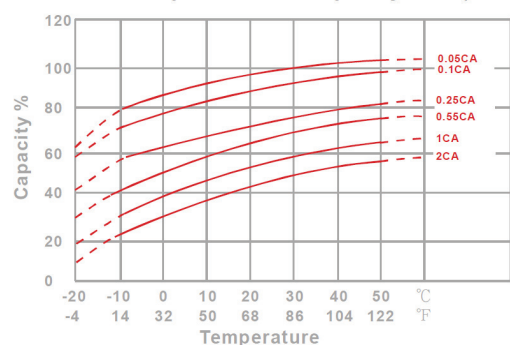
(V)  
FOR 12V  
BATTERY

#### Discharge Time VS. Discharge Current (25°C)

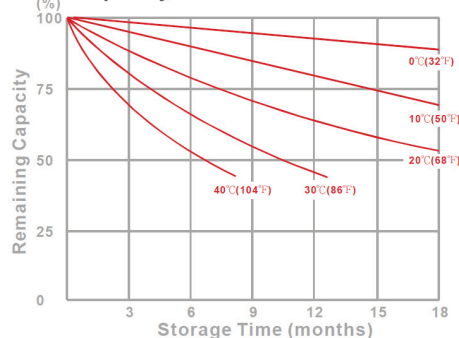


### CHARACTERISTICS CHARTS

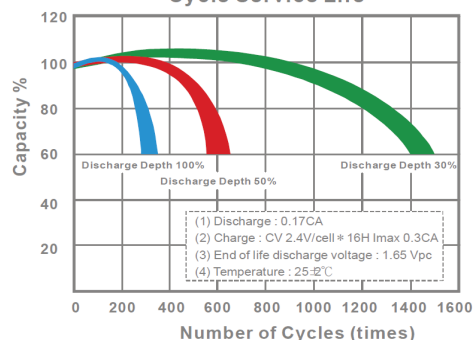
Effect of Temperature on Capacity 25°C(77°F)



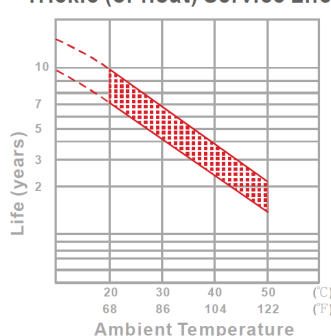
Capacity Retention Characteristic



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	154	166	179	190	195	200	208
10	min	117	125	133	139	144	147	154
15	min	101	106	110	113	115	118	121
30	min	67.1	68.7	70.1	71.3	71.9	72.6	73.7
60	min	43.7	44.5	45	45.4	45.6	45.9	46.2
120	min	23.7	24	24.3	24.4	24.6	24.8	24.9
180	min	19	19.1	19.3	19.4	19.6	19.6	19.7
240	min	14.6	14.7	14.8	14.9	15	15	15.1
300	min	12.3	12.4	12.4	12.5	12.50	12.5	12.5
600	min	6.94	7.07	7.19	7.3	7.42	7.48	7.56
1200	min	3.5	3.61	3.69	3.77	3.81	3.84	3.9

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	82.2	91.8	102	110	113	117	123
10	min	60.7	65.4	70	74.3	76.6	79	83.1
15	min	52.7	55.4	56.4	57.4	57.8	58.2	58.9
30	min	34.4	35.4	36.2	36.8	37.3	37.5	38.2
60	min	22.4	22.7	22.9	23.1	23.2	23.4	23.7
120	min	11.8	12.1	12.3	12.5	12.6	12.8	13
180	min	9.03	9.14	9.29	9.38	9.48	9.57	9.66
240	min	7.25	7.31	7.37	7.42	7.44	7.46	7.5
300	min	5.95	6.02	6.08	6.13	6.15	6.17	6.19
600	min	3.45	3.51	3.56	3.6	3.61	3.63	3.64
1200	min	1.72	1.8	1.85	1.88	1.89	1.9	1.91

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.