

Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

GEL

12V

7Ah



SLA

GEL
Deep Cycle

12GB7C

Rechargeable Hybrid Gel Lead Acid Battery

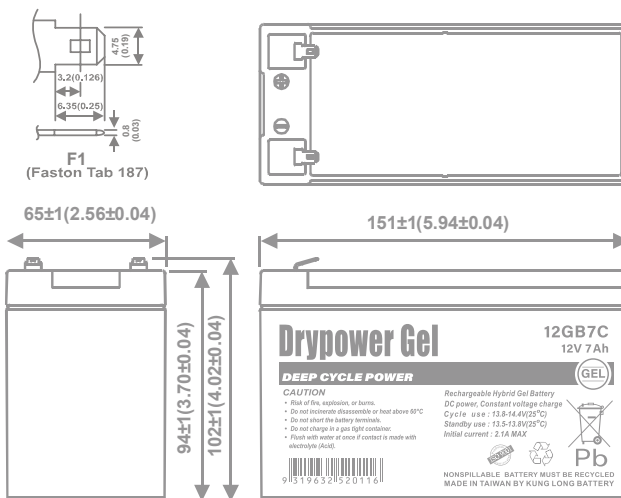
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	7Ah	
20 hour rate (0.35A to 10.50V)	7Ah	
5 hour rate (1.19A to 10.20V)	5.95Ah	
1 hour rate (3.85A to 9.60V)	3.85Ah	
1C (7A to 9.60V)	3.73Ah	
Weight	Approx. 2.45kg	
Internal Resistance (at 1KHz)	Approx. 20mΩ	
Maximum Discharge Current (5 secs)	105A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	13.8V to 14.4V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	2.1A	
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	F1 (Faston Tab 187)	
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	 9319632520116	

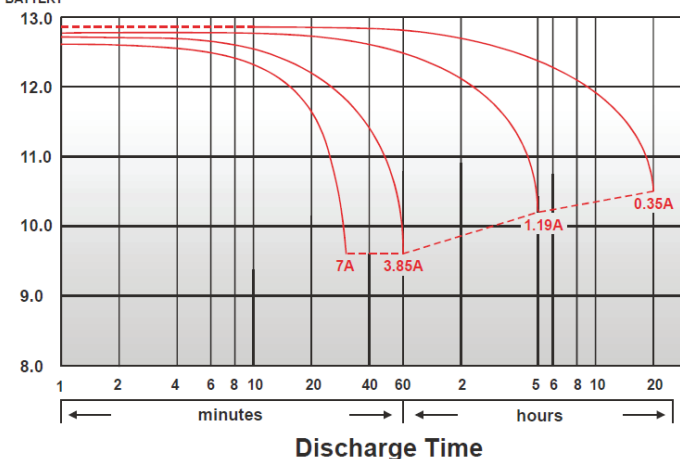


DIMENSIONS

mm (inch)

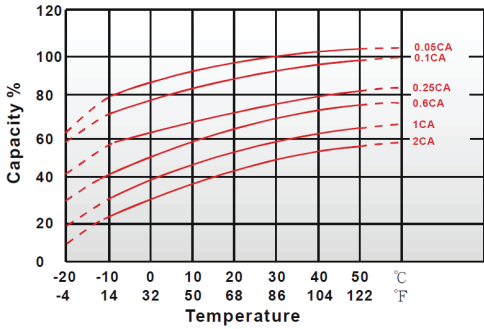


(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

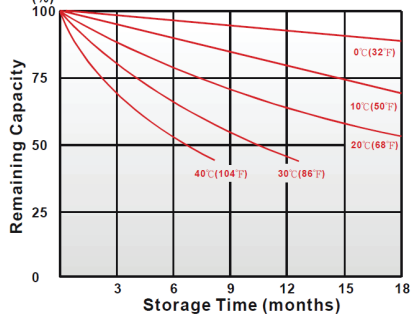


CHARACTERISTICS CHARTS

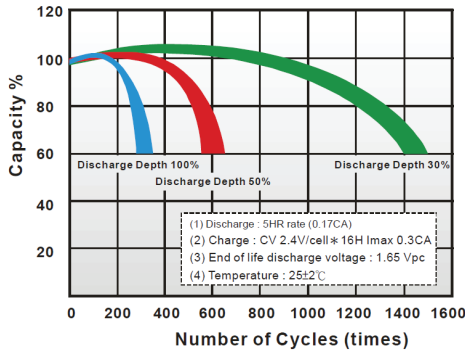
Effect of Temperature on Capacity 25°C (77°F)



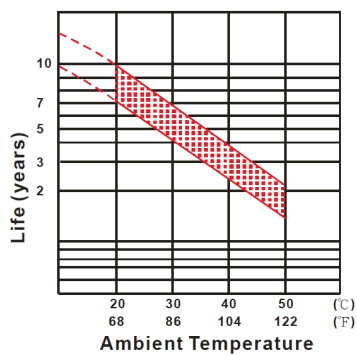
Capacity Retention Characteristic



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
5	min	41.9	47	49.3	51.5	52.4	53.2	54.7
10	min	29.2	30.7	32	33.3	34.1	34.6	35.6
15	min	24	25	25.7	26.3	26.5	27	27.6
30	min	12.7	13.4	13.8	14.2	14.3	14.4	14.6
60	min	8.26	8.56	8.79	8.97	9.04	9.11	9.26
120	min	4.13	4.3	4.54	5.12	5.16	5.21	5.29
180	min	3.2	3.38	3.53	3.66	3.69	3.74	3.79
240	min	2.81	2.95	3.04	3.09	3.11	3.14	3.17
300	min	2.42	2.49	2.58	2.63	2.65	2.67	2.68
600	min	1.33	1.36	1.39	1.41	1.41	1.42	1.43
1200	min	0.68	0.704	0.722	0.735	0.74	0.745	0.755

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
5	min	23	25.9	27.5	29.1	29.9	30.7	31.9
10	min	15.9	16.7	17.8	18.2	18.4	18.7	19.4
15	min	12.3	12.8	13.3	13.6	13.7	13.9	14.2
30	min	6.48	6.78	7	7.15	7.23	7.3	7.46
60	min	3.9	4.05	4.17	4.27	4.3	4.33	4.39
120	min	2.01	2.1	2.17	2.22	2.24	2.27	2.3
180	min	1.6	1.66	1.72	1.76	1.78	1.8	1.83
240	min	1.27	1.34	1.39	1.42	1.43	1.44	1.46
300	min	1.09	1.14	1.21	1.23	1.23	1.24	1.25
600	min	0.637	0.666	0.707	0.713	0.72	0.722	0.732
1200	min	0.334	0.35	0.369	0.374	0.376	0.379	0.384

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+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.