Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

12V | 50Ah | SLA | GEL Deep Cycle

12GB50C

Rechargeable Hybrid Gel Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(2.50A to 10.50V)	50Ah
5 hour rate	(8.50A to 10.20V)	42.5Ah
1 hour rate	(27.5A to 9.60V)	27.5Ah
1C	(50A to 9.60V)	26.67Ah
Weight		Approx. 14.8kg
Internal Resistance (at 1KHz)		Approx. 6mΩ
Maximum Discharge Current (5 secs)		600A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		13.8V to 14.4V
Maximum Charging Current		15A
Standby Use		
Float Charging Voltage Coefficient -3.0mV/°C/Cell		13.5V to 13.8V
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		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

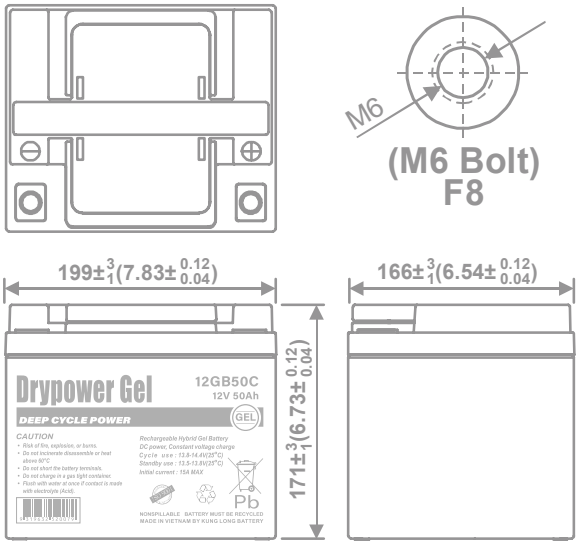
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

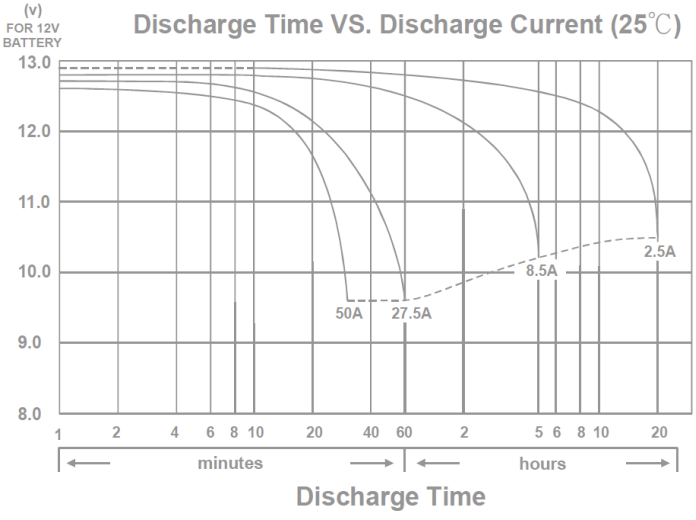
IATA

Barcode

9319632520079

DIMENSIONS mm (inch)



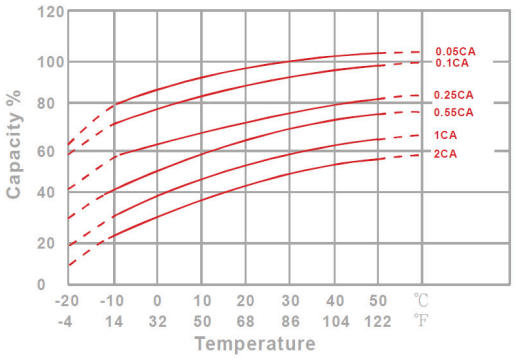


Drypower Gel

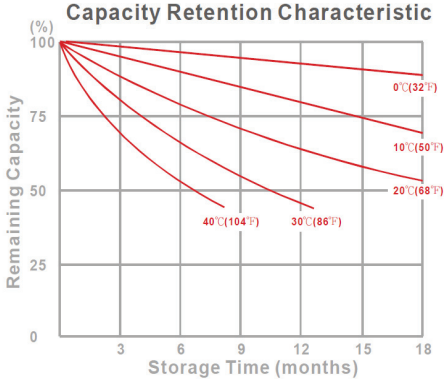
12GB50C (12V 50Ah)

CHARACTERISTICS CHARTS

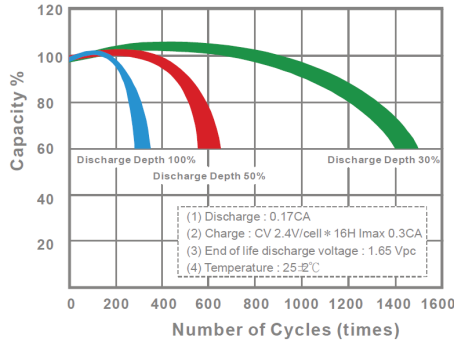
Effect of Temperature on Capacity 25℃(77℉)



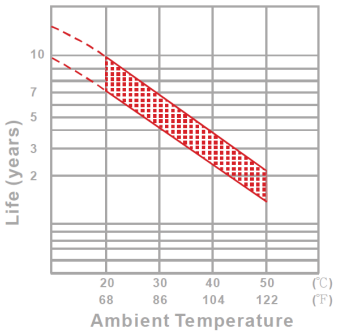
Capacity Retention Characteristic



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)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	216	259	290	311	315	320	325
10	min	154	183	200	210	213	217	221
15	min	114	131	144	150	153	155	157
30	min	70.2	80.9	87.5	90.3	91.4	92.6	93.9
60	min	50.4	53.1	54.7	55.9	56.4	57	57.5
120	min	27.7	30.4	31.7	32.8	33.1	33.6	34
180	min	20	21.8	22.9	23.7	24	24.3	24.6
240	min	16.6	17.8	18.4	19.1	19.2	19.6	19.9
300	min	15.6	16.2	16.7	17	17.20	17.3	17.5
600	min	8.44	8.92	9.2	9.38	9.42	9.49	9.57
1200	min	4.49	4.77	4.95	5.06	5.1	5.15	5.19

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	125	149	167	179	185	189	193
10	min	78.1	93.5	103	110	113	116	118
15	min	71.6	77.7	80.6	83	83.6	84.5	85.5
30	min	40.9	45.6	47.5	49	49.4	50	50.6
60	min	24.4	27.1	28.1	28.8	29	29.2	29.5
120	min	14.3	15.4	16	16.4	16.6	16.8	17
180	min	10.6	11.2	11.6	11.9	12	12.1	12.2
240	min	8.67	9.16	9.41	9.59	9.66	9.8	9.88
300	min	7.69	8.09	8.33	8.5	8.56	8.62	8.69
600	min	4.4	4.64	4.75	4.81	4.83	4.86	4.9
1200	min	2.32	2.44	2.5	2.55	2.57	2.59	2.61

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%)

Aug2020