

Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

GEL

12V

160Ah

SLA

GEL
Deep Cycle

12GB160C-FR

Rechargeable Hybrid Gel Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate (8.00A to 10.50V)	160Ah	
10 hour rate (15.0A to 10.80V)	150Ah	
5 hour rate (25.5A to 10.20V)	127.5Ah	
1 hour rate (82.5A to 9.60V)	82.5Ah	
Weight	Approx. 50kg	
Internal Resistance (at 1KHz)	Approx. 4.5mΩ	
Maximum Discharge Current (5 secs)	1500A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	13.8V to 14.4V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	48A	
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	UL94 V-0 Flame Retardant	
Termination	F18 (M8 Bolt)	

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	M8: 7 N-m (71kg-cm)
Max. Allowable Torque Value	M8: 9 N-m (92kg-cm)

Design Life	12 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



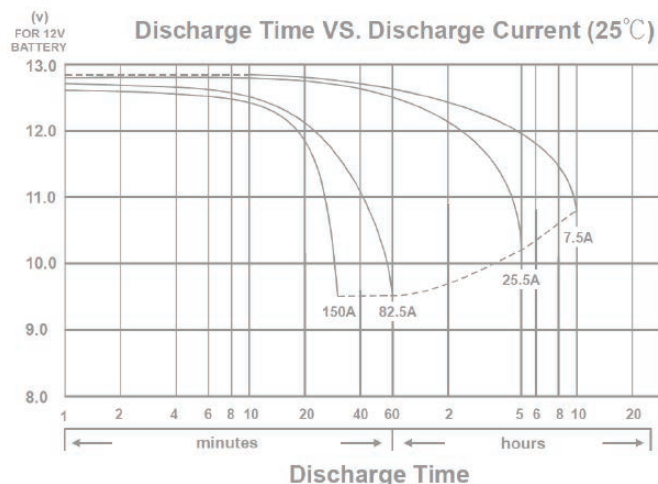
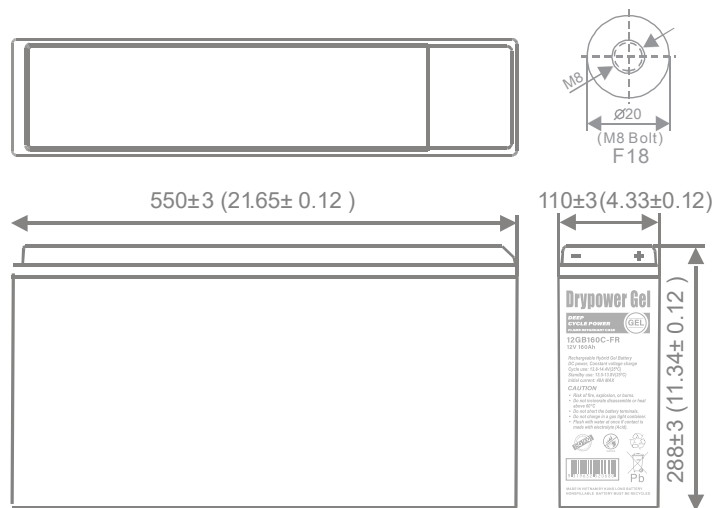
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UL94 V-0
FLAME RETARDANT
CASE

DIMENSIONS

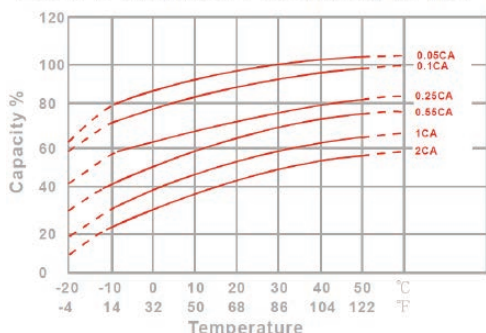
mm (inch)



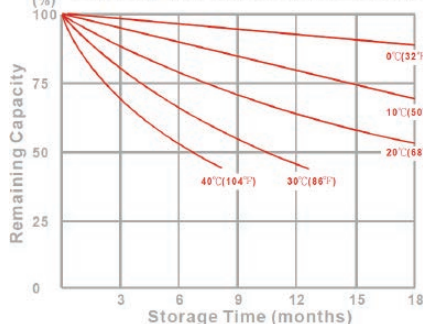
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

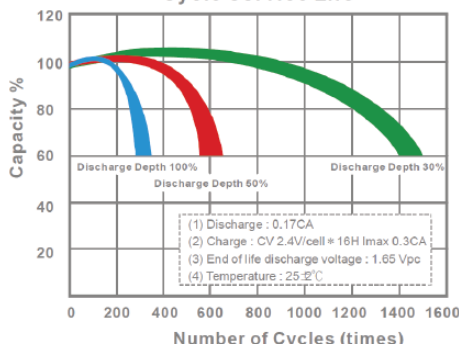
Effect of Temperature on Capacity 25°C (77°F)



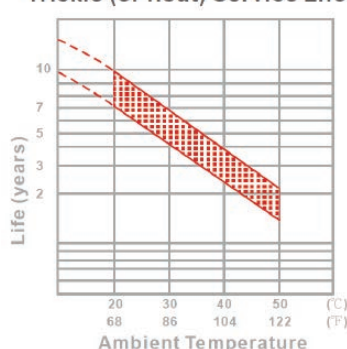
Capacity Retention Characteristic



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								
15	min	1571	2020	2327	2524	2582	2645	2712
30	min	1086	1353	1536	1654	1689	1726	1765
60	min	898	960	1001	1030	1035	1041	1048
120	min	530	559	575	588	593	598	604
180	min	421	443	459	471	475	480	485
240	min	345	362	373	382	385	389	393
300	min	293	308	319	326	328	331	334
480	min	201	207	216	222	224	226	228
600	min	166	177	181	184	185.00	186	187
1200	min	87.8	92.7	96.1	99.2	100	101	102

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								
15	min	174	211	235	252	257	262	268
30	min	101	124	139	149	152	155	159
60	min	77.2	85.1	87.9	90.3	91.3	92.2	93.6
120	min	42.8	48.6	51.1	52.8	53.5	54.3	55.3
180	min	31.7	36.5	38.4	39.8	40.3	40.9	41.6
240	min	26.8	29.5	30.8	31.8	32.1	32.5	32.9
300	min	23.2	25.1	26.1	26.9	27.1	27.4	27.6
480	min	17.10	18	18.5	18.9	19	19.2	19.3
600	min	14.3	15	15.4	15.7	15.8	15.9	16
1200	min	7.66	7.98	8.12	8.21	8.24	8.28	8.33

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%)