Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER
GEL

12V | 160Ah | SLA | GEL Deep Cycle

12GB160C-FR

Rechargeable Hybrid Gel Lead Acid Battery

UL94 V-0
FLAME RETARDANT CASE

SPECIFICATIONS

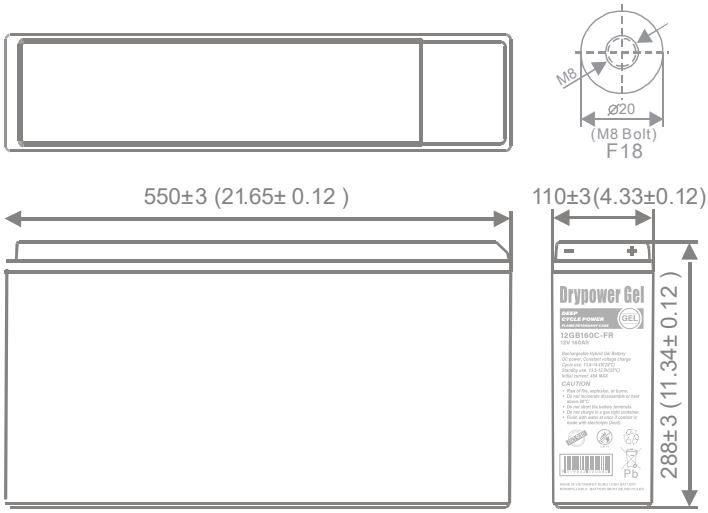
Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(8.00A to 10.50V)	160Ah
10 hour rate	(15.0A to 10.80V)	150Ah
5 hour rate	(25.5A to 10.20V)	127.5Ah
1 hour rate	(82.5A to 9.60V)	82.5Ah
Weight		Approx. 50kg
Internal Resistance (at 1KHz)		Approx. 4.5mΩ
Maximum Discharge Current (5 secs)		1500A
Charge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

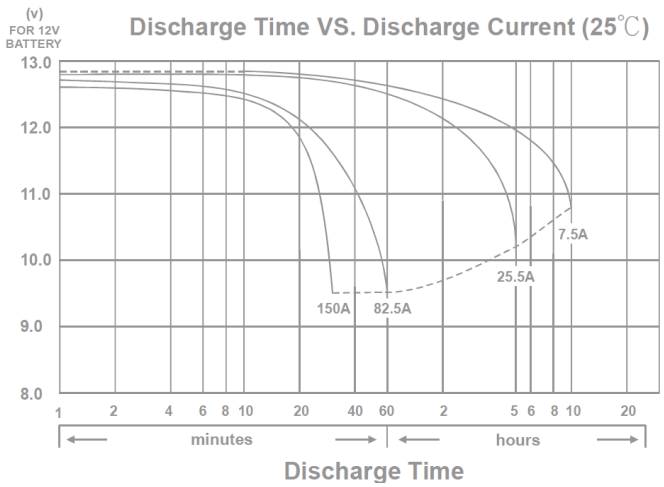
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode 9319632520680

DIMENSIONS mm (inch)



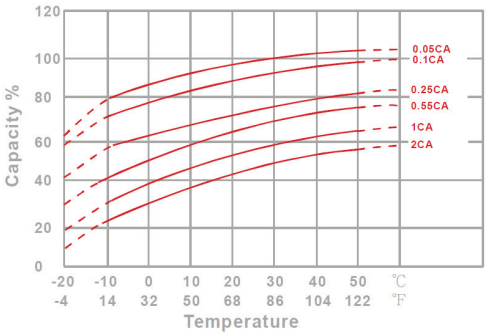


Drypower Gel

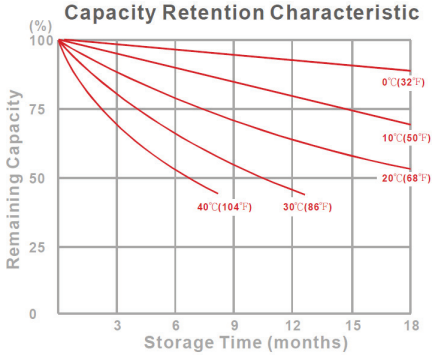
12GB160C-FR (12V 160Ah)

CHARACTERISTICS CHARTS

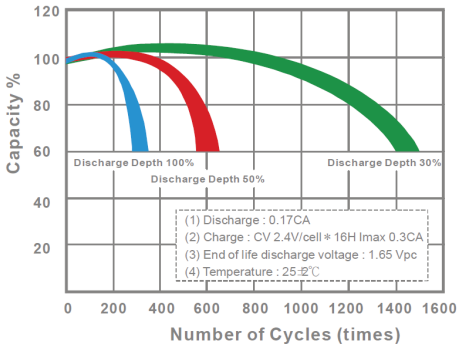
Effect of Temperature on Capacity 25℃(77℉)



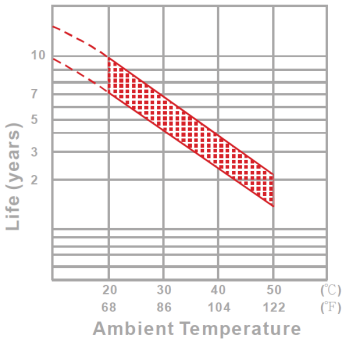
Capacity Retention Characteristic



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
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)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
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%)

Aug2020