Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

12V | 55Ah | SLA | GEL Deep Cycle

12GB55C

Rechargeable Hybrid Gel Lead Acid Battery

SPECIFICATIONS

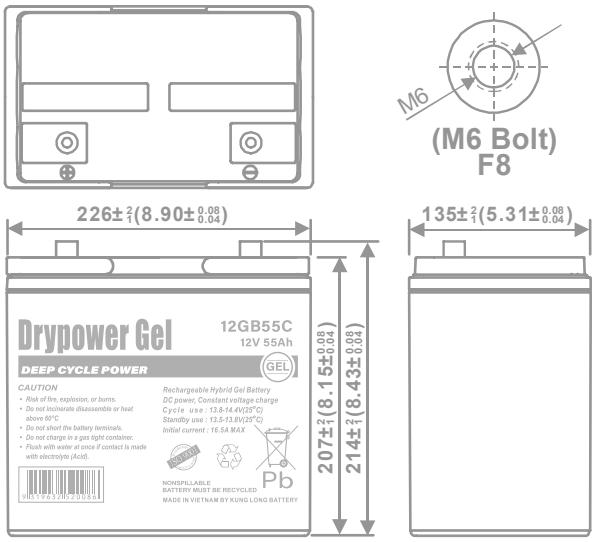
Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(2.75A to 10.50V)	55Ah
5 hour rate	(9.35A to 10.20V)	46.75Ah
1 hour rate	(30.25A to 9.60V)	30.25Ah
1C	(55A to 9.60V)	29.33Ah
Weight		Approx. 17.0kg
Internal Resistance (at 1KHz)		Approx. 8mΩ
Maximum Discharge Current (5 secs)		660A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		13.8V to 14.4V
Maximum Charging Current		16.5A
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

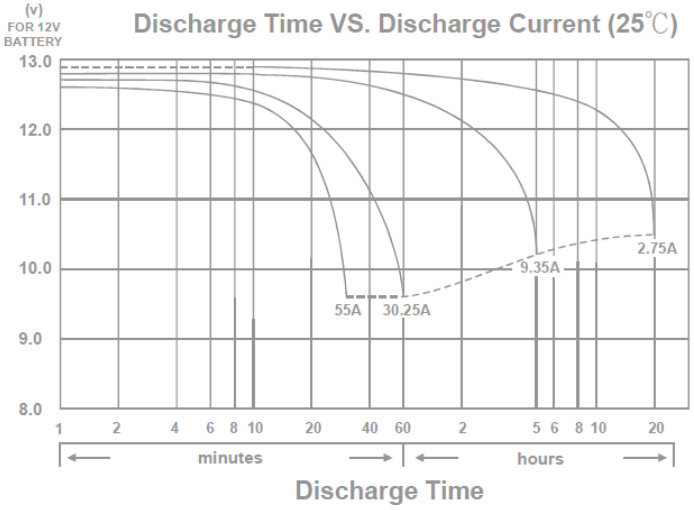
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode 9319632520086

DIMENSIONS mm (inch)





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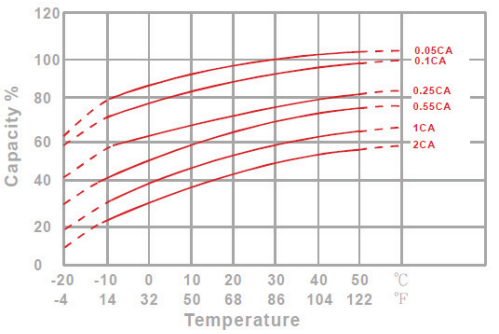
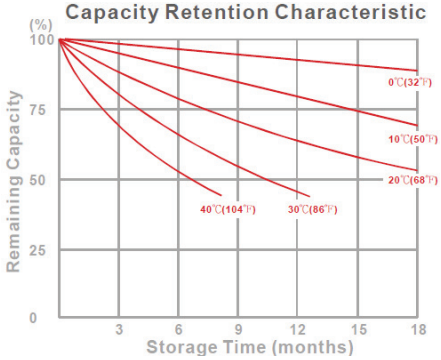
12GB55C (12V 55Ah)

CHARACTERISTICS CHARTS

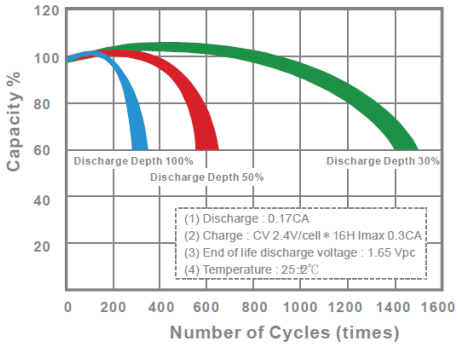
Effect of Temperature on Capacity 25℃(77℉)



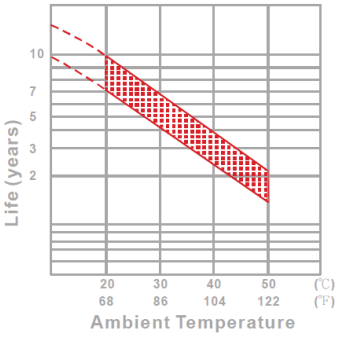
Capacity Retention Characteristic



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	302	350	380	396	399	403	408
10	min	198	230	249	259	262	264	268
15	min	154	173	186	196	198	200	202
30	min	83	94.5	102	105	106	107	109
60	min	57.1	60.6	63.1	65	65.8	66.5	67.6
120	min	30.3	33.5	35.7	37.2	37.7	38.4	39.1
180	min	22.3	24.5	26.3	27.7	28.2	28.7	29.4
240	min	18.3	20.2	21.5	22.7	23	23.3	23.9
300	min	16.6	17.8	18.8	19.5	19.90	20	20.3
600	min	10.3	10.8	11.1	11.2	11.30	11.4	11.5
1200	min	5.37	5.65	5.8	5.92	5.96	6.01	6.1

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	162	188	201	216	210	214	219
10	min	95.8	110	122	131	134	137	140
15	min	76.4	86.5	93.7	97.9	99.2	101	103
30	min	41.6	47.7	51.4	53	53.6	54.2	54.9
60	min	27.9	31.5	33.2	34.4	34.7	35.1	35.6
120	min	16.1	17.4	18.3	19	19.2	19.5	19.8
180	min	12.4	13.2	13.7	14.1	14.2	14.4	14.6
240	min	10.20	10.8	11.2	11.5	11.6	11.7	11.8
300	min	8.84	9.22	9.53	9.74	9.81	9.88	9.97
600	min	4.98	5.24	5.42	5.53	5.57	5.62	5.68
1200	min	2.56	2.7	2.81	2.89	2.92	2.95	2.99

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