

Drypower Gel

HYBRID GEL TYPE
DEEP CYCLE POWER

GEL

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	13.8V to 14.4V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	16.5A
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	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
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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

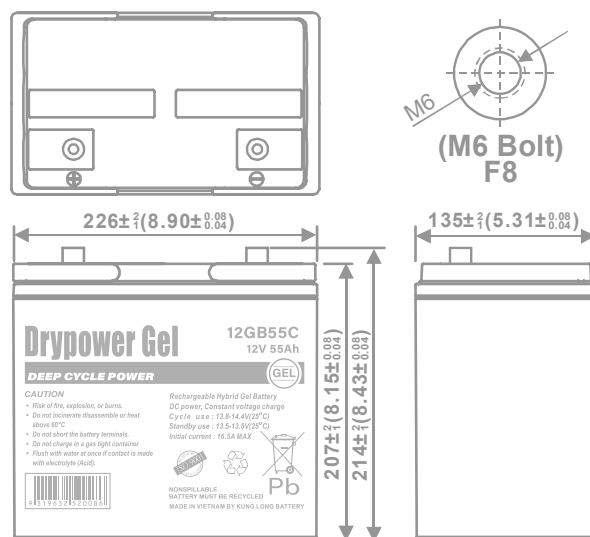


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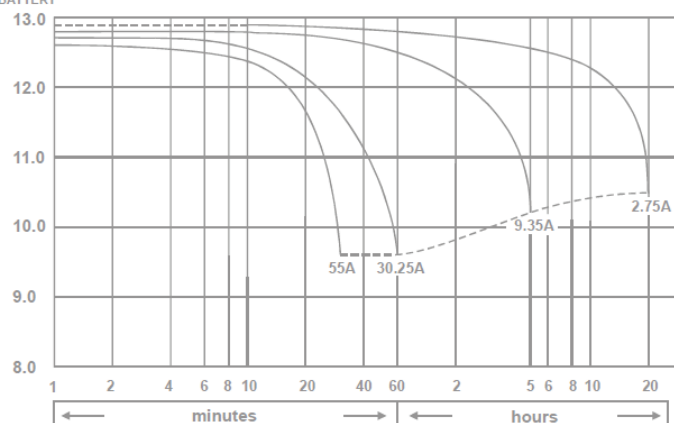
DIMENSIONS

mm (inch)



(V)
FOR 12V
BATTERY

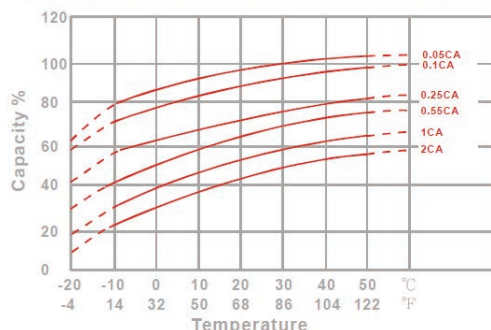
Discharge Time VS. Discharge Current (25°C)



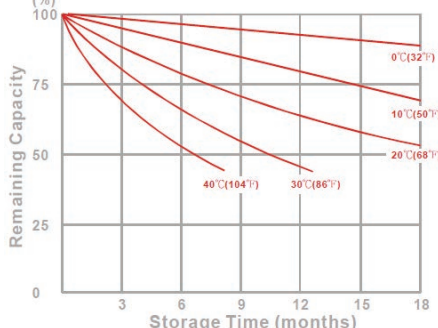
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

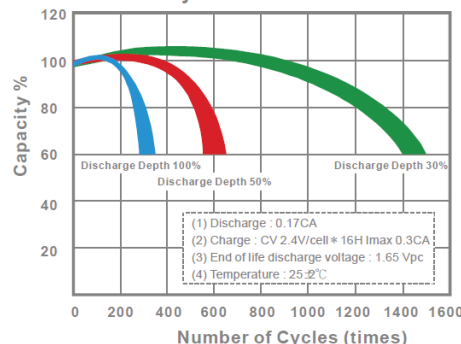
Effect of Temperature on Capacity 25°C(77°F)



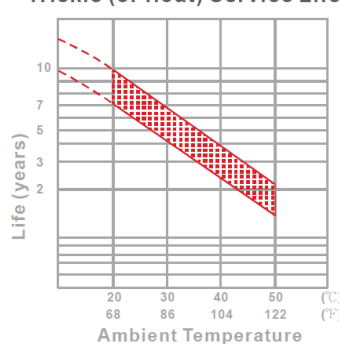
Capacity Retention Characteristic



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								
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)

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

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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.