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100Ah **12V**

12GB100C

Rechargeable Hybrid Gel Lead Acid Battery

| SPECIFICATIONS 12∨ Nominal Capacity 12∨ Nominal Capacity 100 Ato 10.50∨) 10 hour rate (10A to 10.20∨) 5 hour rate (17A to 10.20∨) 5 hour rate (17A to 10.20∨) 1 hour rate (55A to 9.60∨) 1C (100A to 9.60∨) Meight Approx. 34kg Maximum Discharge Current (5 secs) 1200A Maximum Discharge Current (5 secs) 1200A Charge Methods at 25°C 13.8V to 14.4V Coefficient -5.0m V/°C /Cell 30A Maximum Charging Current 30A Standby Use 13.5V to 13.8V Float Charging Voltage -15°C to 40°C Coefficient -3.0m V/°C /Cell 13.5V to 13.8V Operating Temperature Range -15°C to 40°C Discharge -15°C to 40°C Storage -15°C to 40°C 1 month 98% 3 months 94% 4 months 85% 3 months 94% 4 months 85% Case Material ABS UL94 HB Fermination F8 (Mc6 Bolt) |
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| Nominal CapacityI10 hour rate(10A to 10.50V)100Ah5 hour rate(17A to 10.20V)85Ah1 hour rate(55A to 9.60V)55Ah1C(100A to 9.60V)53.33AhWeightApprox. 34kgInternal Resistance (at 1KHz)Approx. 4mQMaximum Discharge Current (5 secs)1200ACharge Methods at 25°C1200ACycle Use Charging Voltage Coefficient -5.0mV/°C/Cell30AMaximum Charging Current30AStandby Use Float Charging Voltage Coefficient -3.0mV/°C/Cell13.5V to 13.8VOperating Temperature Range Charge Coefficient -3.0mV/°C/Cell-15°C to 40°C -15°C to 40°CCharge Bischarge Storage-15°C to 40°C -15°C to 40°C1 month 3 months98% -15°C to 40°C1 month 6 months98% -15°C to 40°CCase MaterialABS UL94 HBFerminationF8 (M6 Bolt) |
| 10 hour rate (10A to 10.50V) 100Ah 5 hour rate (17A to 10.20V) 85Ah 1 hour rate (55A to 9.60V) 55Ah 1C (100A to 9.60V) 53.33Ah Weight Approx. 34kg Internal Resistance (at 1KHz) Approx. 4mΩ Maximum Discharge Current (5 secs) 1200A Charge Methods at 25°C 1200A Charging Voltage Charging Voltage Coefficient -5.0mV/°C/Cell 30A Maximum Charging Current 30A Standby Use Float Charging Voltage Coefficient -3.0mV/°C/Cell 13.5V to 13.8V Charge Retention (Shelf Life) at 20°C -15°C to 40°C Discharge 3 months -15°C to 40°C 1 month 98% 3 months 94% 3 months 85% Case Material ABS UL94 HB |
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| Charge Methods at 25°CImage: Cycle Use Charging Voltage Coefficient -5.0mV/°C/Cell13.8V to 14.4VMaximum Charging Current30AStandby Use Float Charging Voltage Coefficient -3.0mV/°C/Cell13.5V to 13.8VOperating Temperature Range-15°C to 40°CCharge Discharge Storage-15°C to 40°CDischarge Storage-15°C to 40°C1 month98%3 months 6 months94%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
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| Standby Use Float Charging Voltage Coefficient -3.0m V/°C/Cell13.5V to 13.8VOperating Temperature Range-15°C to 40°CCharge Discharge Storage-15°C to 50°CCharge Retention (Shelf Life) at 20°C-15°C to 40°CI month 3 months 6 months98% 85%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
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| Charge-15°C to 40°CDischarge-15°C to 50°CStorage-15°C to 40°CCharge Retention (Shelf Life) at 20°C98%1 month98%3 months94%6 months85%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
| Discharge-15°C to 50°CStorage-15°C to 40°CCharge Retention (Shelf Life) at 20°C98%1 month98%3 months94%6 months85%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
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| Charge Retention (Shelf Life) at 20°C1 month98%3 months94%6 months85%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
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| 3 months94%6 months85%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
| 6 months85%Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
| Case MaterialABS UL94 HBTerminationF8 (M6 Bolt) |
| Termination F8 (M6 Bolt) |
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| Description of lorque value of Haraware for the Terminals |
| December and ad Terraue Value (1997) |
| Recommended Torque ValueM6: 7 N-m (71kgf-cm)Max. Allowable Torque ValueM6: 9 N-m (92kgf-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) |
| Barcode 9319632520017 |



HYBRID GEL TYPE

SLA

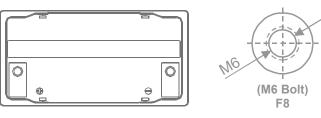
CYCLE POWE

GEL

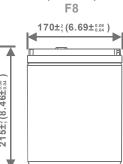
GEL Deep Cycle

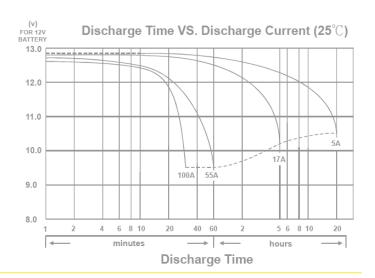
DIMENSIONS

mm (inch)

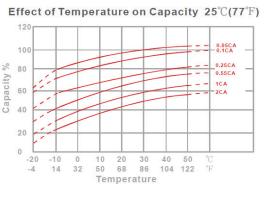


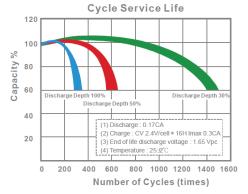




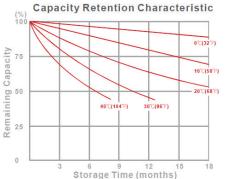


CHARACTERISTICS CHARTS

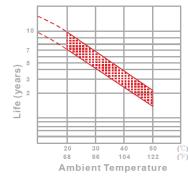




PERFORMANCE DATA



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.



| 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 | 460 | 508 | 541 | 573 | 587 | 603 | 632 | |
| 10 | min | 310 | 339 | 363 | 385 | 395 | 406 | 426 | |
| 15 | min | 244 | 266 | 283 | 299 | 306 | 314 | 328 | |
| 30 | min | 144 | 153 | 162 | 169 | 172 | 176 | 183 | |
| 60 | min | 108 | 112 | 115 | 117 | 118 | 120 | 121 | |
| 120 | min | 58.6 | 61.5 | 63.9 | 65.3 | 66.2 | 67.3 | 68.7 | |
| 180 | min | 45.4 | 47.7 | 49.8 | 50.1 | 50.8 | 51.8 | 52.9 | |
| 240 | min | 32.9 | 34.9 | 36.7 | 38.6 | 39.2 | 40 | 40.9 | |
| 300 | min | 30.6 | 32 | 33.3 | 34.2 | 34.50 | 35 | 35.6 | |
| 600 | min | 18.2 | 19.3 | 20.1 | 20.9 | 21.20 | 21.5 | 21.9 | |
| 1200 | min | 10 | 10.4 | 10.6 | 10.8 | 10.9 | 11 | 11.1 | |

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 5 188 247 281 309 318 329 344 min 10 min 141 167 186 202 209 217 230 15 104 129 146 158 163 168 176 min 30 78.1 88.7 95.2 100 101 103 105 min 60 40.2 47.8 53.1 56.9 57.8 59.1 60.9 min 29.2 120 min 22.4 26.2 32.1 32.8 33.7 34.8 180 19.3 21.5 23.2 24.6 25 25.6 26.3 min 240 15.40 17.1 18.3 19.2 19.4 19.8 20.3 min 300 14.5 15.7 16.5 17 17.2 17.4 17.7 min 600 9.6 9.88 10.1 10.3 10.4 10.5 10.7 min 1200 4.83 4.99 5.15 5.26 5.31 5.37 5.44 min

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

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.