



12V

65Ah

SLA

CYCLIC  
AGM

## 12SB65CL

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

|                                       |                |  |
|---------------------------------------|----------------|--|
| Nominal Voltage                       | 12V            |  |
| Nominal Capacity                      |                |  |
| 20 hour rate (3.250A to 10.50V)       | 65Ah           |  |
| 10 hour rate (6.175A to 10.50V)       | 61.75Ah        |  |
| 5 hour rate (11.05A to 10.20V)        | 55.25Ah        |  |
| 1C (65A to 9.60V)                     | 36.83Ah        |  |
| 3C (195A to 9.60V)                    | 26Ah           |  |
| Weight                                | Approx. 23.3kg |  |
| Internal Resistance (at 1KHz)         | Approx. 5mΩ    |  |
| Maximum Discharge Current (5 secs)    | 780A           |  |
| Charge Methods at 25°C                |                |  |
| <b>Cycle Use</b>                      |                |  |
| Charging Voltage                      | 14.4V to 15.0V |  |
| Coefficient -5.0mV/°C/Cell            |                |  |
| Maximum Charging Current              | 19.5A          |  |
| <b>Standby Use</b>                    |                |  |
| Float Charging Voltage                | 13.5V to 13.8V |  |
| Coefficient -3.0mV/°C/Cell            |                |  |
| Operating Temperature Range           |                |  |
| <b>Charge</b>                         | -15°C to 40°C  |  |
| <b>Discharge</b>                      | -15°C to 50°C  |  |
| <b>Storage</b>                        | -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 | 3-5 years |
|-------------|-----------|

Classified as a non-spillable battery.  
Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

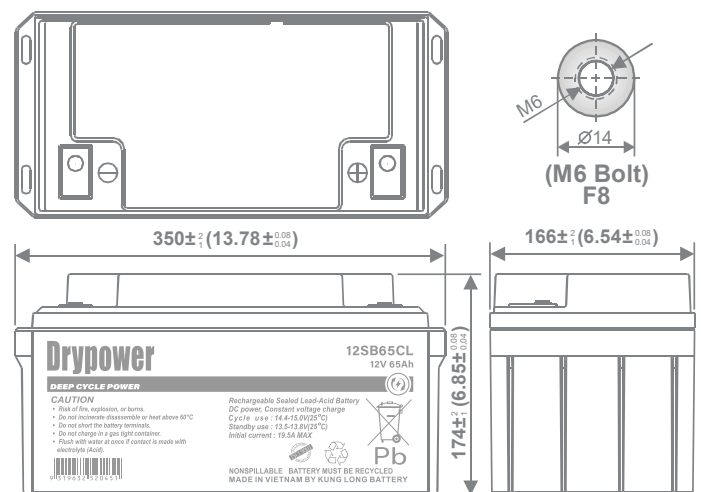


|         |  |
|---------|--|
| Barcode | <br>9319632520451 |
|---------|--|

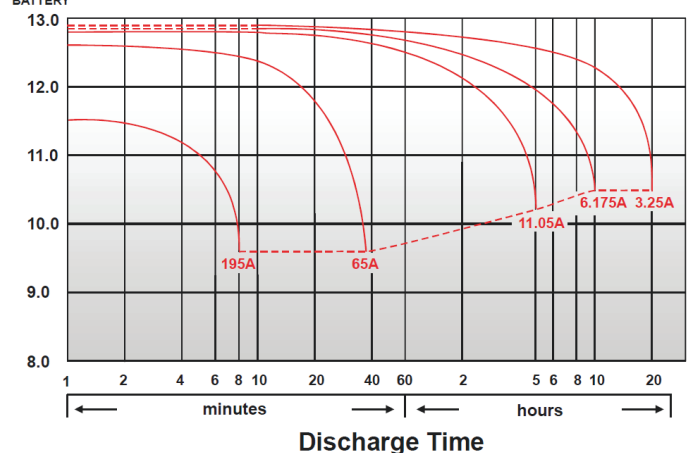


### DIMENSIONS

mm (inch)

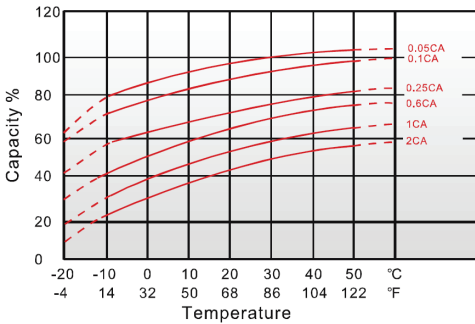


### Discharge Time VS. Discharge Current (25°C)

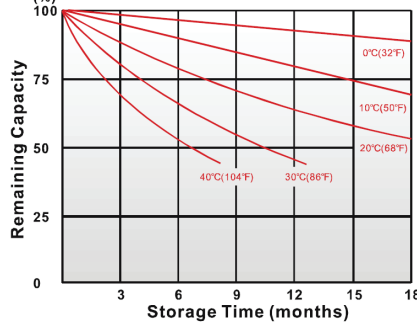


## CHARACTERISTICS CHARTS

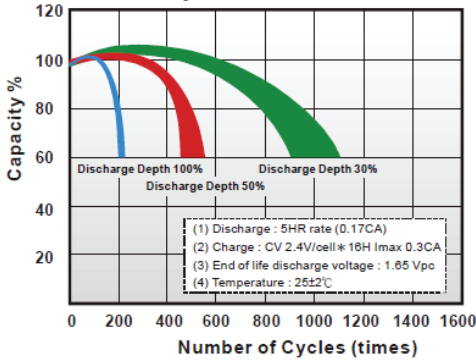
Effect of Temperature on Capacity 25°C(77°F)



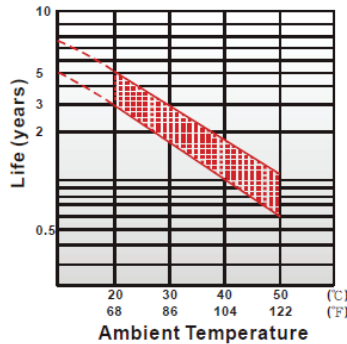
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



## FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Special grid frame alloy design with outstanding anti-corrosion performance.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Suitable for use in any orientation (except inverted) for use in hard to reach locations.
- ◆ Higher percentage of tin content compared with the industry standard. Tin extends battery standby life by minimising sulphation (corrosion) especially at higher 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 | 322   | 461   | 543   | 589   | 601   | 614   | 627   |
| 10          | min | 206   | 296   | 348   | 378   | 385   | 394   | 403   |
| 15          | min | 152   | 209   | 241   | 259   | 264   | 269   | 274   |
| 30          | min | 96.5  | 109   | 116   | 122   | 124   | 127   | 130   |
| 60          | min | 78.7  | 81.5  | 82.7  | 83.5  | 84    | 84.7  | 85.5  |
| 120         | min | 46.7  | 49    | 50    | 50.5  | 50.7  | 50.8  | 51    |
| 180         | min | 33.2  | 35    | 36.2  | 36.8  | 37.2  | 37.5  | 38    |
| 240         | min | 27    | 28    | 28.8  | 29.5  | 29.7  | 30    | 30.3  |
| 300         | min | 23.2  | 23.6  | 23.9  | 24.3  | 24.4  | 24.6  | 24.8  |
| 600         | min | 13.3  | 13.9  | 14.2  | 14.4  | 14.5  | 14.6  | 14.8  |
| 1200        | min | 6.97  | 7.3   | 7.43  | 7.55  | 7.6   | 7.65  | 7.73  |

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 | 172   | 243   | 281   | 300   | 306   | 314   | 336   |
| 10          | min | 108   | 159   | 177   | 191   | 196   | 202   | 210   |
| 15          | min | 81.5  | 112   | 119   | 128   | 131   | 135   | 140   |
| 30          | min | 50.6  | 56    | 60    | 65.7  | 67.1  | 69.2  | 71.4  |
| 60          | min | 33.8  | 38.7  | 41.1  | 42.5  | 43    | 43.6  | 44.3  |
| 120         | min | 19.7  | 22.5  | 24.4  | 25.6  | 26    | 26.5  | 27.2  |
| 180         | min | 15    | 16.1  | 17.3  | 18.2  | 18.5  | 18.9  | 19.4  |
| 240         | min | 12.9  | 13.6  | 14    | 14.3  | 14.4  | 14.6  | 14.8  |
| 300         | min | 11.3  | 11.6  | 11.8  | 12    | 12.1  | 12.2  | 12.3  |
| 600         | min | 6.56  | 6.86  | 7     | 7.11  | 7.15  | 7.2   | 7.27  |
| 1200        | min | 3.49  | 3.6   | 3.67  | 3.73  | 3.76  | 3.79  | 3.82  |

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%)