



12V

10Ah

SLA

CYCLIC  
AGM

## 12SB10C

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

Nominal Voltage 12V

#### Nominal Capacity

|              |                   |        |
|--------------|-------------------|--------|
| 20 hour rate | (0.50A to 10.50V) | 10Ah   |
| 10 hour rate | (0.95A to 10.50V) | 9.5Ah  |
| 5 hour rate  | (1.70A to 10.20V) | 8.5Ah  |
| 1C           | (10A to 9.60V)    | 5.67Ah |
| 3C           | (30A to 9.60V)    | 4Ah    |

Weight Approx. 3.29kg

Internal Resistance (at 1KHz) Approx. 11mΩ

Maximum Discharge Current (5 secs) 150A

#### Charge Methods at 25°C

##### Cycle Use

Charging Voltage 14.4V to 15.0V  
Coefficient -5.0mV/°C/Cell

Maximum Charging Current 3A

##### 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  | 92% |
| 3 months | 90% |
| 6 months | 80% |

Case Material ABS UL94 HB

Termination F2 (Faston Tab 250)

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

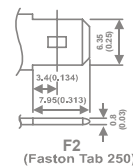


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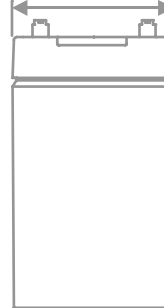


### DIMENSIONS

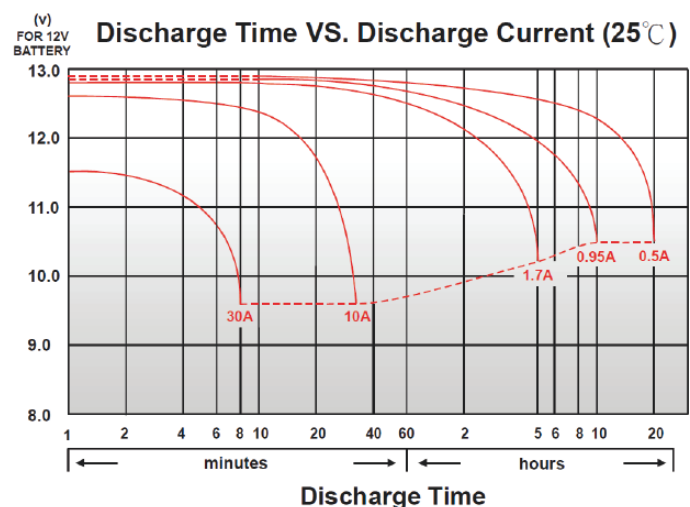
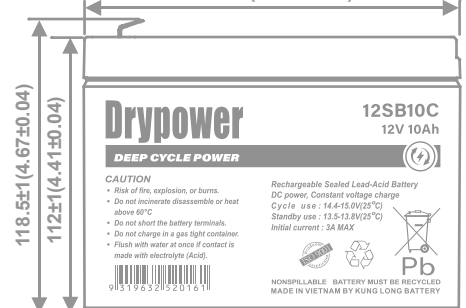
mm (inch)



65±1(2.56±0.04)



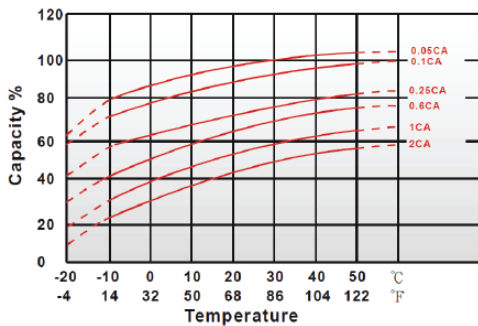
151±1(5.94±0.04)



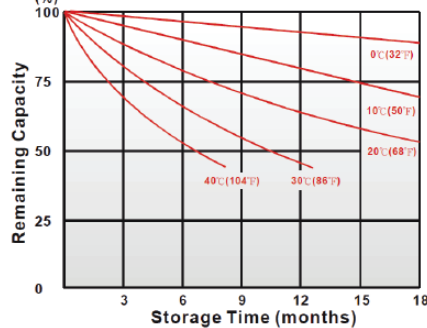
\* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

### CHARACTERISTICS CHARTS

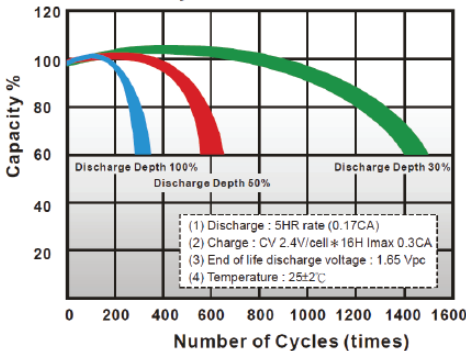
Effect of Temperature on Capacity 25°C (77°F)



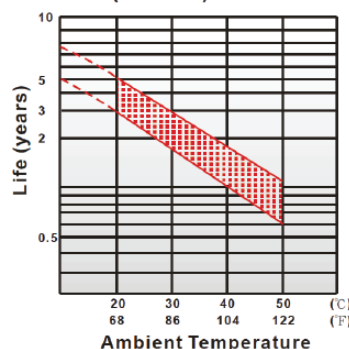
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



### FEATURES & BENEFITS

- ♦ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ♦ 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 | 49.7  | 57.2  | 60.2  | 62.7  | 63.7  | 64.7  | 65.8  |
| 10          | min | 37.7  | 41.2  | 43    | 44.3  | 44.8  | 45.5  | 46.3  |
| 15          | min | 29.2  | 31.3  | 32.7  | 33.7  | 34.2  | 34.7  | 35.2  |
| 30          | min | 18.3  | 19.2  | 19.7  | 20    | 20.3  | 20.5  | 20.7  |
| 60          | min | 10.4  | 11.2  | 11.6  | 11.9  | 12    | 12.1  | 12.2  |
| 120         | min | 5.88  | 6.43  | 6.72  | 6.92  | 7     | 7.1   | 7.2   |
| 180         | min | 4.57  | 4.95  | 5.2   | 5.38  | 5.43  | 5.52  | 5.6   |
| 240         | min | 3.78  | 3.92  | 4.02  | 4.1   | 4.13  | 4.18  | 4.23  |
| 300         | min | 3.32  | 3.42  | 3.48  | 3.53  | 3.57  | 3.6   | 3.63  |
| 600         | min | 1.92  | 1.97  | 2.02  | 2.07  | 2.08  | 2.1   | 2.13  |
| 1200        | min | 1.06  | 1.09  | 1.11  | 1.15  | 1.15  | 1.16  | 1.17  |

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 | 24.6  | 29.3  | 32.7  | 34.1  | 34.9  | 35.6  | 36.1  |
| 10          | min | 21.4  | 24.1  | 25.6  | 26.7  | 27.1  | 27.6  | 28.3  |
| 15          | min | 15.6  | 17.2  | 18.4  | 19.1  | 19.5  | 19.9  | 20.4  |
| 30          | min | 10.7  | 11.3  | 11.8  | 12.2  | 12.4  | 12.6  | 12.8  |
| 60          | min | 5.69  | 6.03  | 6.26  | 6.45  | 6.58  | 6.63  | 6.69  |
| 120         | min | 3.24  | 3.39  | 3.48  | 3.56  | 3.59  | 3.62  | 3.67  |
| 180         | min | 2.55  | 2.63  | 2.68  | 2.72  | 2.74  | 2.76  | 2.79  |
| 240         | min | 1.96  | 2.01  | 2.05  | 2.08  | 2.09  | 2.11  | 2.12  |
| 300         | min | 1.69  | 1.72  | 1.74  | 1.76  | 1.77  | 1.78  | 1.79  |
| 600         | min | 0.974 | 1     | 1.02  | 1.04  | 1.05  | 1.06  | 1.07  |
| 1200        | min | 0.525 | 0.527 | 0.532 | 0.536 | 0.538 | 0.541 | 0.544 |

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$  (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$  (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$  (+8%~-8%),  $X \geq 60\text{min}$  (+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.