



12V

73W

SLA

UPS  
AGM

## 12SB70WHR

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

|                                    |                        |        |
|------------------------------------|------------------------|--------|
| Nominal Voltage                    | 12V                    |        |
| Nominal Power                      |                        |        |
| 10 min rate                        | 73W/cell to 1.60V/cell |        |
| 15 min rate                        | 54W/cell to 1.60V/cell |        |
| Nominal Capacity                   |                        |        |
| 20 hour rate                       | (0.60A to 10.50V)      | 12Ah   |
| 5 hour rate                        | (2.04A to 10.20V)      | 10.2Ah |
| 1C                                 | (12A to 9.60V)         | 7.6Ah  |
| 3C                                 | (36A to 9.60V)         | 4.8Ah  |
| Weight                             | Approx. 3.65kg         |        |
| Internal Resistance (at 1KHz)      | Approx. 13mΩ           |        |
| Maximum Discharge Current (5 secs) | 180A                   |        |

#### Charge Methods at 25°C

##### Standby Use

Float Charging Voltage 13.5V to 13.8V  
Coefficient -3.0mV/°C/Cell

Maximum Charging Current 3.6A

#### 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 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

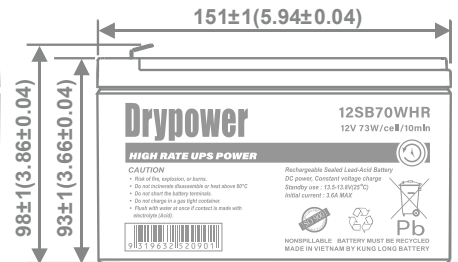
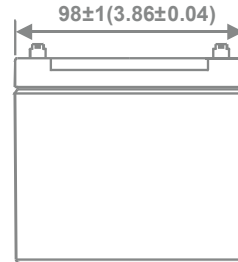
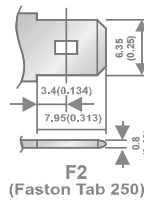


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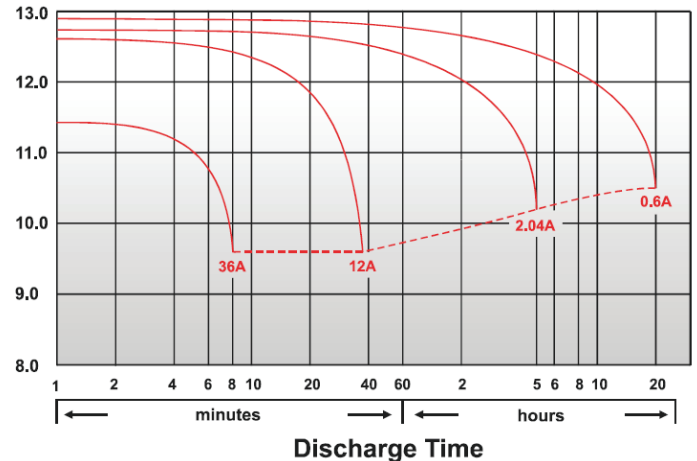
### DIMENSIONS

mm (inch)



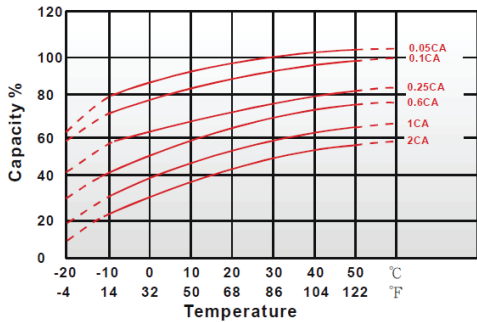
(V)  
FOR 12V  
BATTERY

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

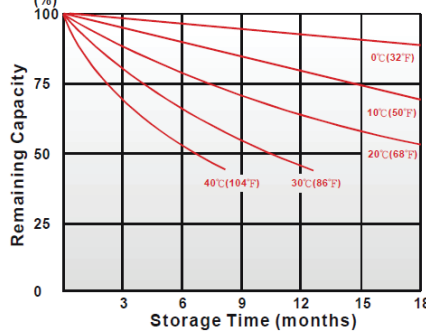


## CHARACTERISTICS CHARTS

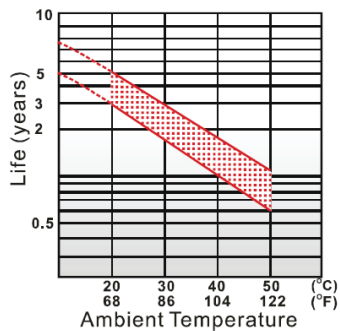
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Trickle (or float) Service Life



## FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Specially formulated solder paste to ensure reliable power delivery.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Special grid frame alloy design with outstanding anti-corrosion performance.
- ◆ 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 | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| 2           | min | 129   | 142   | 155   | 162   | 165   | 172   |
| 4           | min | 98.5  | 107   | 116   | 121   | 124   | 128   |
| 5           | min | 86.7  | 95    | 102   | 106   | 109   | 113   |
| 6           | min | 85    | 88.3  | 91.8  | 95.7  | 97.7  | 101   |
| 8           | min | 73.5  | 76.8  | 80    | 82    | 83.2  | 84    |
| 10          | min | 63.2  | 65.6  | 68.1  | 70.3  | 71.7  | 73.5  |
| 15          | min | 48.4  | 50.1  | 51.8  | 52.8  | 53.3  | 54.2  |
| 20          | min | 39.2  | 39.8  | 40.7  | 41.5  | 41.8  | 42.8  |
| 30          | min | 29.5  | 29.8  | 30.2  | 30.6  | 30.70 | 30.9  |
| 45          | min | 20.9  | 21    | 21.2  | 21.4  | 21.50 | 21.7  |
| 60          | min | 16.3  | 16.4  | 16.5  | 16.6  | 16.60 | 16.7  |
| 90          | min | 12.8  | 12.9  | 13.1  | 13.2  | 13.3  | 13.3  |

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 | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| 2           | min | 54.3  | 73    | 77.4  | 80.7  | 82.6  | 86    |
| 4           | min | 51.7  | 54.9  | 58    | 60.6  | 61.7  | 64.1  |
| 5           | min | 46.6  | 49    | 51.5  | 53.5  | 54.6  | 56.6  |
| 6           | min | 42.8  | 44.7  | 46.6  | 48.2  | 49.4  | 51    |
| 8           | min | 36.6  | 38.4  | 40.1  | 41.4  | 42    | 43.2  |
| 10          | min | 31.7  | 33    | 34.4  | 35.3  | 35.9  | 36.9  |
| 15          | min | 23.9  | 24.8  | 25.8  | 26.5  | 26.8  | 27.2  |
| 20          | min | 19.60 | 19.9  | 20.4  | 20.8  | 21    | 21.5  |
| 30          | min | 14.7  | 14.9  | 15.2  | 15.3  | 15.4  | 15.5  |
| 45          | min | 10.4  | 10.5  | 10.6  | 10.7  | 10.8  | 10.9  |
| 60          | min | 8.18  | 8.22  | 8.27  | 8.31  | 8.32  | 8.36  |
| 90          | min | 6.37  | 6.45  | 6.55  | 6.61  | 6.64  | 6.68  |

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.