# Drypower

VRLA AGM MULTIPURPOSE RANGE

**BACKUP & MAIN POWER**

**6V** **12Ah** **SLA** **AGM**

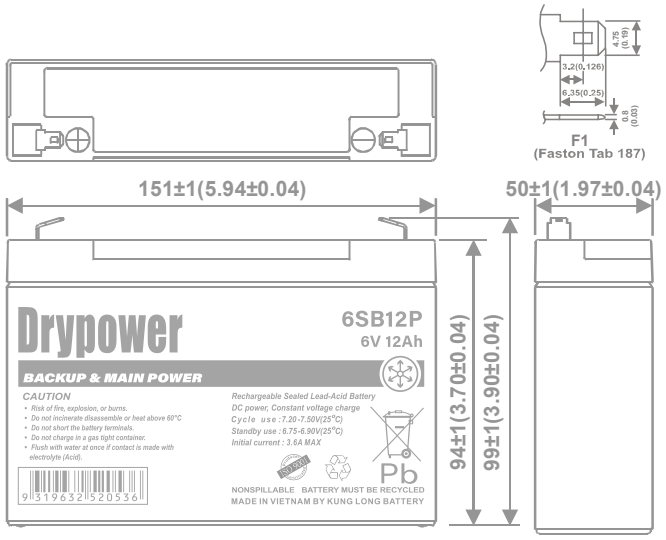
# 6SB12P

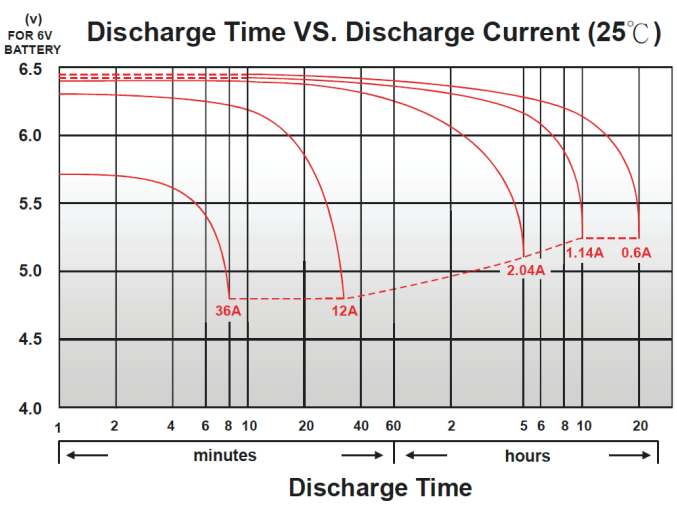
## Rechargeable AGM Sealed Lead Acid Battery

## SPECIFICATIONS

| | | |
|---|---|---|
| **Nominal Voltage** | | 6V |
| **Nominal Capacity** | | |
| **20 hour rate** | (0.60A to 5.25V) | 12Ah |
| **10 hour rate** | (1.14A to 5.25V) | 11.4Ah |
| **5 hour rate** | (2.04A to 5.10V) | 10.2Ah |
| **1C** | (12A to 4.8V) | 6.8Ah |
| **3C** | (36A to 4.8V) | 4.8Ah |
| **Weight** | | Approx. 1.84kg |
| **Internal Resistance** (at 1KHz) | | Approx. 6mΩ |
| **Maximum Discharge Current** (5 secs) | | 180A |
| **Charge Methods at 25°C** | | |
| **Cycle Use** | | |
| Charging Voltage<br>Coefficient -5.0mV/°C/Cell | | 7.20V to 7.50V |
| Maximum Charging Current | | 3.6A |
| **Standby Use** | | |
| Float Charging Voltage<br>Coefficient -3.0mV/°C/Cell | | 6.75V to 6.90V |
| **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** | | F1 (Faston Tab 187) |
| **Design Life** | | 3-5 years |
| **Classified as a non-spillable battery. Approved for transportation by:**<br>• Air (IATA/ICAO provision A67)<br>• Road<br>• Sea (per IMDG Special Provision 238) | | IATA |
| **Barcode** | | 9319632520536 |

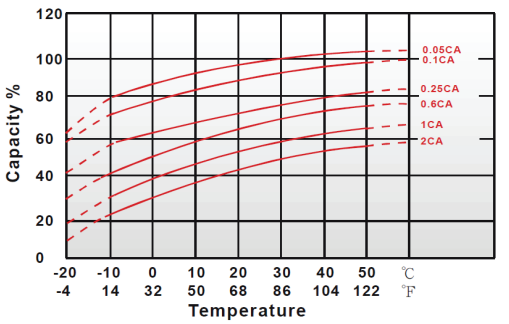

## DIMENSIONS mm (inch)



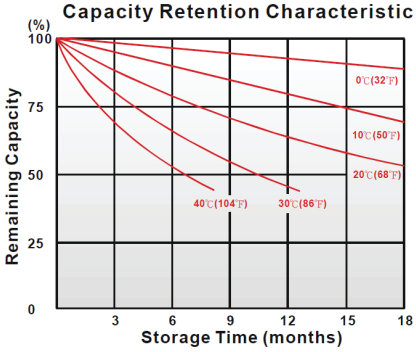



## CHARACTERISTICS CHARTS

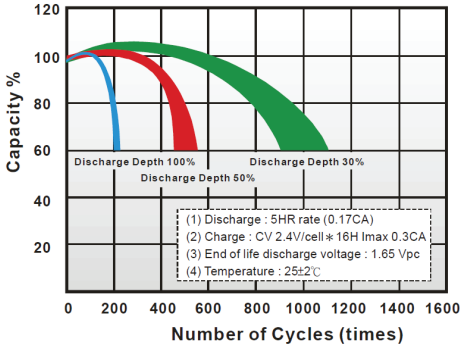
Effect of Temperature on Capacity 25℃(77℉)



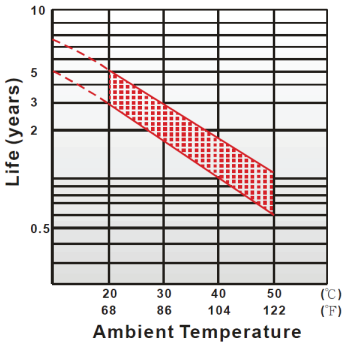

Capacity Retention Characteristic




Cycle Service Life




Trickle (or float) Service Life




## FEATURES & BENEFITS

- Industry leading 99.99% pure lead content for superior service life and dependable performance.
- Maintenance free technology and non-spillable design.
- Excellent charge retention in storage.
- 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)**

| Time \ End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|---|---|---|---|---|---|---|---|---|
| 5 | min | 72.5 | 77.9 | 80.3 | 81.9 | 84 | 85.7 | 87.5 |
| 10 | min | 47.7 | 52.4 | 54 | 55.1 | 56.8 | 57.5 | 58.9 |
| 15 | min | 39.5 | 41.5 | 42.8 | 43.7 | 45 | 45.9 | 46.2 |
| 30 | min | 22.2 | 24 | 24.7 | 25.2 | 26.5 | 27 | 27.4 |
| 60 | min | 13.5 | 14.4 | 14.8 | 15.1 | 15.4 | 15.7 | 15.9 |
| 120 | min | 7.85 | 8.51 | 8.77 | 8.95 | 9.01 | 9.29 | 9.4 |
| 180 | min | 5.88 | 5.95 | 6.35 | 6.37 | 6.4 | 6.45 | 6.58 |
| 240 | min | 4.75 | 4.8 | 4.85 | 4.87 | 4.92 | 4.94 | 4.98 |
| 300 | min | 3.92 | 4.15 | 4.28 | 4.32 | 4.35 | 4.4 | 4.44 |
| 600 | min | 2.1 | 2.21 | 2.28 | 2.33 | 2.39 | 2.44 | 2.47 |
| 1200 | min | 1.09 | 1.2 | 1.23 | 1.26 | 1.31 | 1.35 | 1.39 |

**Discharge Rates in Amperes 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 | 39.5 | 41.2 | 44.3 | 45.2 | 46.7 | 47.1 | 47.8 |
| 10 | min | 27.1 | 30 | 31.8 | 32.4 | 33.1 | 33.4 | 33.7 |
| 15 | min | 20.2 | 21 | 22.3 | 22.4 | 23.2 | 23.4 | 23.6 |
| 30 | min | 12 | 12.3 | 13 | 13.5 | 13.7 | 13.8 | 14.1 |
| 60 | min | 7.32 | 7.56 | 8.02 | 8.18 | 8.34 | 8.42 | 8.45 |
| 120 | min | 3.95 | 4.15 | 4.4 | 4.49 | 4.58 | 4.62 | 4.66 |
| 180 | min | 2.95 | 3 | 3.11 | 3.17 | 3.24 | 3.26 | 3.29 |
| 240 | min | 2.30 | 2.33 | 2.47 | 2.52 | 2.57 | 2.59 | 2.62 |
| 300 | min | 1.85 | 1.95 | 2.07 | 2.11 | 2.15 | 2.17 | 2.21 |
| 600 | min | 1.13 | 1.16 | 1.2 | 1.22 | 1.25 | 1.26 | 1.31 |
| 1200 | min | 0.61 | 0.617 | 0.63 | 0.645 | 0.665 | 0.67 | 0.692 |

**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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