# Drypower

VRLA AGM MULTIPURPOSE RANGE

**BACKUP & MAIN POWER**

**12V** **30Ah** **SLA** **AGM**

# 12SB30P

Rechargeable AGM Sealed Lead Acid Battery


## SPECIFICATIONS

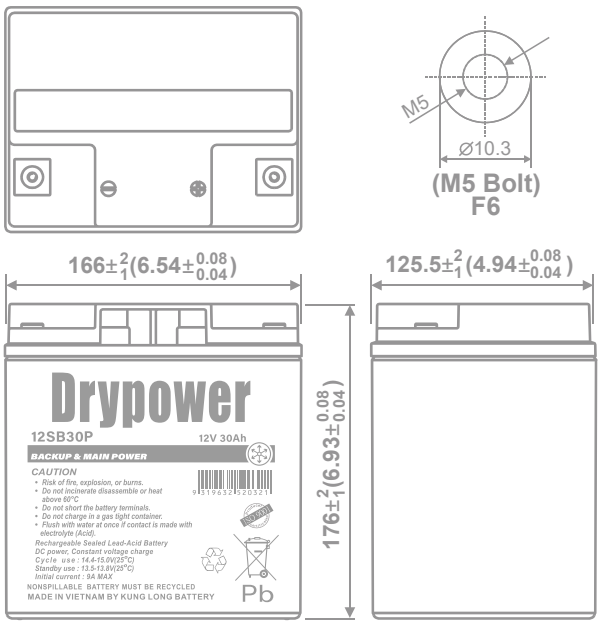
| | | |
|---|---|---|
| **Nominal Voltage** | | 12V |
| **Nominal Capacity** | | |
| **20 hour rate** | (1.50A to 10.50V) | 30Ah |
| **10 hour rate** | (2.85A to 10.50V) | 28.5Ah |
| **5 hour rate** | (5.10A to 10.20V) | 25.5Ah |
| **1C** | (30A to 9.60V) | 17Ah |
| **3C** | (90A to 9.60V) | 12Ah |
| **Weight** | | Approx. 9.3kg |
| **Internal Resistance** (at 1KHz) | | Approx. 9.4mΩ |
| **Maximum Discharge Current** (5 secs) | | 450A |
| **Charge Methods at 25°C** | | |
| **Cycle Use** | | |
| Charging Voltage<br>Coefficient -5.0mV/°C/Cell | | 14.4V to 15.0V |
| Maximum Charging Current | | 9A |
| **Standby Use** | | |
| Float Charging Voltage<br>Coefficient -3.0mV/°C/Cell | | 13.5V to 13.8V |
| **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** | | F6 (M5 Bolts) |
| **Description of Torque Value of Hardware for the Terminals** | | |
| Recommended Torque Value | | M5: 4 N-m (41kgf-cm) |
| Max. Allowable Torque Value | | M5: 6 N-m (61kgf-cm) |
| **Design Life** | | 3-5 years |

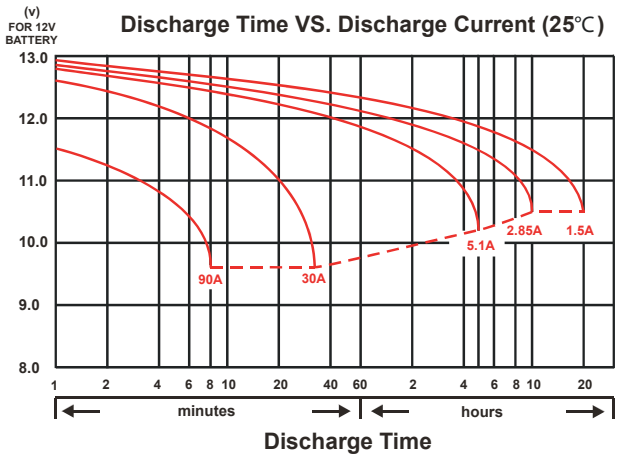
**Classified as a non-spillable battery.**
**Approved for transportation by:**
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

| | |
|---|---|
| **Barcode** | 9319632520321 |

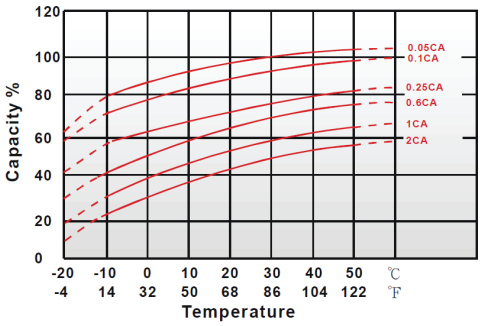
## DIMENSIONS mm (inch)



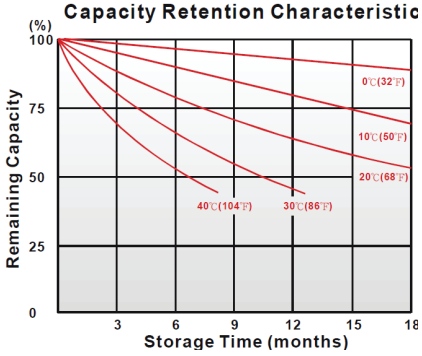



## CHARACTERISTICS CHARTS

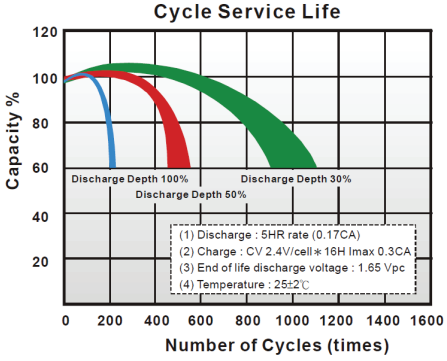
Effect of Temperature on Capacity 25℃(77℉)



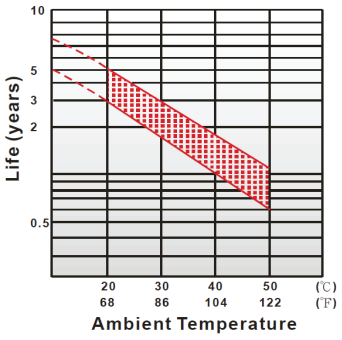

Capacity Retention Characteristic




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 | 141 | 177 | 198 | 209 | 213 | 217 | 222 |
| 10 | min | 108 | 124 | 135 | 142 | 146 | 149 | 153 |
| 15 | min | 94.4 | 105 | 110 | 114 | 116 | 117 | 119 |
| 30 | min | 58.4 | 63.1 | 65 | 66.5 | 66.8 | 67.4 | 68.1 |
| 60 | min | 34.4 | 37.1 | 38.5 | 39.5 | 39.8 | 40.4 | 40.9 |
| 120 | min | 20.3 | 21.7 | 22.5 | 23.2 | 23.3 | 23.7 | 24 |
| 180 | min | 15.5 | 16.1 | 16.4 | 16.7 | 16.8 | 17 | 17.2 |
| 240 | min | 12.7 | 13.2 | 13.5 | 13.7 | 13.7 | 13.8 | 14 |
| 300 | min | 10.4 | 10.9 | 11.1 | 12.1 | 11.3 | 11.4 | 11.5 |
| 600 | min | 5.81 | 6.02 | 6.17 | 6.3 | 6.33 | 6.39 | 6.45 |
| 1200 | min | 3.13 | 3.26 | 3.33 | 3.38 | 3.4 | 3.44 | 3.47 |

**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 | 75.3 | 96.7 | 110 | 118 | 121 | 124 | 128 |
| 10 | min | 56.4 | 65.5 | 71.8 | 77 | 78.8 | 81 | 83.4 |
| 15 | min | 48.6 | 54.4 | 57.1 | 59.7 | 60.6 | 61.4 | 62.7 |
| 30 | min | 29.3 | 31.8 | 32.9 | 33.8 | 34.1 | 34.5 | 34.9 |
| 60 | min | 16.9 | 18.3 | 19.2 | 19.8 | 20 | 20.2 | 20.4 |
| 120 | min | 10.4 | 10.9 | 11.3 | 11.6 | 11.7 | 11.8 | 11.9 |
| 180 | min | 7.51 | 7.83 | 8.04 | 8.21 | 8.28 | 8.35 | 8.46 |
| 240 | min | 6.12 | 6.41 | 6.54 | 6.66 | 6.7 | 6.74 | 6.81 |
| 300 | min | 5.09 | 5.34 | 5.46 | 5.55 | 5.59 | 5.63 | 5.68 |
| 600 | min | 2.81 | 2.92 | 3 | 3.06 | 3.08 | 3.11 | 3.14 |
| 1200 | min | 1.52 | 1.57 | 1.61 | 1.64 | 1.65 | 1.67 | 1.69 |

**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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