

## Valve Regulated Lead Acid Battery

## 2V HYBRID GEL BATTERY

## LSG Series

### RANGE SUMMARY

By combining the newly developed nano gel electrolyte with up-to-date AGM structures, BSB created the innovative LSG range of batteries. This range offers 20 years design life with very high deep cycling capability.

This series is highly suited to telecom outdoor applications, renewable energy systems and other harsh environment applications.

### FEATURES AND BENEFITS

- 20 years design life in floating condition
- Wide operating temperature range from -40°C to 60°C
- Nano gel electrolyte eliminate the acid stratification and prolong cycle life
- Can be used in vertical or horizontal orientation
- Float current decreased 30% lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate
- Excellent deep discharge recovery capability

### CONSTRUCTION

- Positive plate : Thick high Sn low Ca grid minimize corrosion and prolong life
- Negative plate : Balanced Pb-Ca grid for improved recombination efficiency
- Separator : Advanced AGM separator for ultra low float current
- Electrolyte : Dilute high purity sulphuric acid with nano gel
- Battery container and cover : ABS
- Pillar seal : 100% factory tested, proven two layers epoxy resin seal
- Relief valve : Complete with integrated flame arrestor

### CHARGING VOLTAGE AND SETTINGS

- Constant voltage charging is recommended
- Recommended float charge voltage: 2.25Vpc @ 25°C
- Float voltage temperature compensation: -3mV/°C/cell
- Equalize charge voltage : 2.35 Vpc @25°C
- Max. charge current allowable : 0.25C<sub>10</sub>A



## Capacity Range: 150Ah-3000Ah

### General Specifications



| Code No.  | Voltage (V) | Capacity (AH) | Dimension |       |       |       |        |       |              |       | Weight |        | Terminal Type |
|-----------|-------------|---------------|-----------|-------|-------|-------|--------|-------|--------------|-------|--------|--------|---------------|
|           |             |               | Length    |       | Width |       | Height |       | Total Height |       |        |        |               |
|           |             |               | mm        | in    | mm    | in    | mm     | in    | mm           | in    | Kg     | Lb     |               |
| LSG2-150  | 2           | 150           | 172       | 6.77  | 102   | 4.02  | 206    | 8.11  | 221          | 8.7   | 8.7    | 19.18  | T22           |
| LSG2-200  | 2           | 200           | 173       | 6.81  | 109   | 4.29  | 330    | 12.99 | 365          | 14.37 | 13.5   | 29.76  | T22           |
| LSG2-250  | 2           | 250           | 173       | 6.81  | 109   | 4.29  | 330    | 12.99 | 365          | 14.37 | 15.4   | 33.95  | T22           |
| LSG2-300  | 2           | 300           | 126       | 4.96  | 187   | 7.36  | 361.5  | 14.23 | 375          | 14.76 | 19.4   | 42.77  | T22           |
| LSG2-350  | 2           | 350           | 126       | 4.96  | 187   | 7.36  | 361.5  | 14.23 | 375          | 14.76 | 22.5   | 49.6   | T22           |
| LSG2-400  | 2           | 400           | 166       | 6.54  | 184.5 | 7.26  | 361    | 14.21 | 375          | 14.76 | 25.5   | 56.22  | T22           |
| LSG2-450  | 2           | 450           | 166       | 6.54  | 184.5 | 7.26  | 361    | 14.21 | 375          | 14.76 | 27.5   | 60.63  | T22           |
| LSG2-500  | 2           | 500           | 197.5     | 7.78  | 187   | 7.36  | 361.5  | 14.23 | 375          | 14.76 | 31     | 68.34  | T22           |
| LSG2-600  | 2           | 600           | 223       | 8.78  | 184.5 | 7.26  | 361.5  | 14.23 | 375          | 14.76 | 36     | 79.37  | T22           |
| LSG2-800  | 2           | 800           | 154       | 6.06  | 229   | 9.02  | 555    | 21.85 | 566          | 22.28 | 52.7   | 116.18 | T22           |
| LSG2-1000 | 2           | 1000          | 186       | 7.32  | 229   | 9.02  | 555    | 21.85 | 566          | 22.28 | 62.8   | 138.45 | T22           |
| LSG2-1200 | 2           | 1200          | 225       | 8.86  | 229   | 9.02  | 555    | 21.85 | 566          | 22.28 | 75.5   | 166.45 | T22           |
| LSG2-1500 | 2           | 1500          | 265.5     | 10.45 | 229   | 9.02  | 555    | 21.85 | 566          | 22.28 | 93     | 205.03 | T22           |
| LSG2-2000 | 2           | 2000          | 349       | 13.74 | 233   | 9.17  | 555    | 21.85 | 566          | 22.28 | 122    | 268.96 | T22           |
| LSG2-3000 | 2           | 3000          | 496       | 19.53 | 363   | 14.29 | 362    | 14.25 | 374          | 14.72 | 176    | 388.01 | T22           |

### Applications

- Telecommunications
- UPS
- Data center
- Solar and wind energy system
- Power Utility

### Complied Standards

- IEC 60896-21/22
- Eurobat guide, long life
- BS6290 part 4
- YD/T 799
- UL1989
- IATA and IMDG

For more information and for the complete list of models, please visit our website: [www.bsbpower.com](http://www.bsbpower.com) or send an email to [enquiry@bsbpower.com](mailto:enquiry@bsbpower.com)  
Products specifications described herein are subject to change without prior notification.

### Available Series

- XT Series
- TFC Series
- OPzV Series
- OPzS Series
- FAG Series
- TGF Series
- TG Series
- Solar Series
- LSG Series
- LSE Series
- HR Series
- DC Series
- DB Series
- GB Series

### Notes

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### Headquarters and subsidiaries

- BSB Power Company Limited (HQ)
- BSB Power Europe (France)
- PT. BSB Indonesia
- BSB Power Company Pakistan Ltd

