

CENTURY GB SERIES BATTERIES

For applications with high requirements of operational safety and autonomy times of 1 to more than 100 hours, the GB Series is the right choice. The GB Series Batteries can be used for solar energy storage and for stand-by-power sources in telecommunications, power generation and other power systems.

- ✓ >20 years long life
- ✓ Maintenance Free
- ✓ OPzV design and manufactured in Germany



| ELECTROLYTE | |
|------------------------------|---------------------|
| Fully charge density at 25°C | 1.240 |
| Density Range | 1.230-1.250 |
| Gelled/Absorbed | Gelled |
| Mounting Orientation | Vertical/Horizontal |

| PLATES | |
|-----------------------|---------------|
| POSITIVE PLATES | |
| Number/cell | 7 |
| Type | Tubular-plate |
| Material of grid | PbCaSn-alloy |
| NEGATIVE PLATES | |
| Number/cell | 8 |
| Type | Grid-plate |
| Type Material of grid | PbCaSn-alloy |

| GENERAL | | | | | | | | | | | | | | | |
|-------------------------|--|-----------------------|----------|-----------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|-------------------------|----------|-------------------------|----------|
| Nominal Voltage | 2V | | | | | | | | | | | | | | |
| Design life | 20 years at 20°C floating > 2800 cycles @ 50% DOD at 20°C | | | | | | | | | | | | | | |
| Nominal Capacity | 620 Ah (10 Hr rate to 1.8 VPC @ 25°C) | | | | | | | | | | | | | | |
| Actual Capacity at 25°C | <table border="1"> <tr> <td>1 hour rate to 1.70 V</td> <td>350.0 Ah</td> </tr> <tr> <td>3 hour rate to 1.70 V</td> <td>489.0 Ah</td> </tr> <tr> <td>10 hour rate to 1.80 V</td> <td>620.0 Ah</td> </tr> <tr> <td>24 hour rate to 1.80 V</td> <td>715.2 Ah</td> </tr> <tr> <td>48 hour rate to 1.80 V</td> <td>758.4 Ah</td> </tr> <tr> <td>100 hour rate to 1.80 V</td> <td>793.0 Ah</td> </tr> <tr> <td>120 hour rate to 1.80 V</td> <td>801.6 Ah</td> </tr> </table> | 1 hour rate to 1.70 V | 350.0 Ah | 3 hour rate to 1.70 V | 489.0 Ah | 10 hour rate to 1.80 V | 620.0 Ah | 24 hour rate to 1.80 V | 715.2 Ah | 48 hour rate to 1.80 V | 758.4 Ah | 100 hour rate to 1.80 V | 793.0 Ah | 120 hour rate to 1.80 V | 801.6 Ah |
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| ELECTRICAL PROPERTIES | |
|---|---|
| Self Discharge Rate @ 25°C | < 2% / mth |
| Minimal Charge (Amperes) | 62.0 A |
| Maximum Charge (Amperes) | 124.0 A |
| Maximum Sustained Current (Without damage discharging at 10min, 1.6VPC) | 767 A |
| Internal Resistance (mOHMS) | 0.52 mΩ |
| Float (10°C to 45°C monthly average) | 2.25 VPC ± 1% |
| Cyclic | 2.30 - 2.40 VPC |
| Temperature Compensation | Below 10°C -3mV/deg/cell |
| Float Current (mA) | 124.0 to 186.0 |
| Initial Short circuit current (A) | 4120 |
| EFFICIENCY AT 10 HOUR RATE (%) | |
| Ampere-Hour | > 95% |
| Watt-Hour | > 85% |
| Fastener | M10 brass insertion |
| TORQUE SETTING | |
| Terminal Torque Setting | 22 ±1 Nm |
| COMPLIANT STANDARD | |
| Manufacturing Standard | IEC 60869-21, 22, IEC 61427, EN 50272-2 |

| PHYSICAL PROPERTIES | |
|----------------------------------|--|
| SEPARATOR | |
| Type | Microporous Separator |
| CONTAINER & COVER MATERIALS | |
| LID Material, Colour | High impact, Acrylonitrile Butadiene Styrene ABS/ Grey |
| Container Material, Colour | High impact, Acrylonitrile Butadiene Styrene ABS/ Grey |
| Flame Retardant | No - UL94-HB, Optional UL94-V0 |
| Safety Vent Operational Pressure | 12 KPA |
| DIMENSIONS | |
| Width | 208.0 mm |
| Length | 168.0 mm |
| Height | 535.0 mm |
| Overall Weight | 42.4 kg |

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