

### 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	9
Type	Tubular-plate
Material of grid	PbCaSn-alloy
NEGATIVE PLATES	
Number/cell	10
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	1110Ah (10 Hr rate to 1.8VPC @ 25°C)														
Actual Capacity at 25°C	<table border="0"> <tr> <td>1 hour rate to 1.70V</td> <td>634.0Ah</td> </tr> <tr> <td>3 hour rate to 1.70V</td> <td>882.0Ah</td> </tr> <tr> <td>10 hour rate to 1.80V</td> <td>1110.0Ah</td> </tr> <tr> <td>24 hour rate to 1.80V</td> <td>1303.2Ah</td> </tr> <tr> <td>48 hour rate to 1.80V</td> <td>1392.0Ah</td> </tr> <tr> <td>100 hour rate to 1.80V</td> <td>1460.0Ah</td> </tr> <tr> <td>120 hour rate to 1.80V</td> <td>1476.0Ah</td> </tr> </table>	1 hour rate to 1.70V	634.0Ah	3 hour rate to 1.70V	882.0Ah	10 hour rate to 1.80V	1110.0Ah	24 hour rate to 1.80V	1303.2Ah	48 hour rate to 1.80V	1392.0Ah	100 hour rate to 1.80V	1460.0Ah	120 hour rate to 1.80V	1476.0Ah
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ELECTRICAL PROPERTIES	
Self Discharge Rate @ 25°C	<2% / mth
Minimal Charge (Amperes)	111 A
Maximum Charge (Amperes)	222 A
Maximum Sustained Current (Without damage discharging at 10min, 1.6VPC)	1384 A
Internal Resistance (mOHMS)	0.34 mΩ
Float (10°C to 45°C monthly average)	2.25VPC ± 1%
Cyclic	2.30 - 2.40VPC
Temperature Compensation	Below 10°C -3mV/deg/cell
Float Current (mA)	222 to 333
Initial Short circuit current (A)	6290

PHYSICAL PROPERTIES	
SEPARATOR	
	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	12KPA
DIMENSIONS	
Width	235.0 mm
Length	215.0 mm
Height	710.0 mm
Overall Weight	77.0 kg

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

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### DISCHARGE CURVES FOR GB1110-2

