

## GF12110V 12V 110Ah

### 1. Physical Data

#### Box Data

| Battery |    |                | CHG    |       | Lid    | max    | basic  | max   | basic | Lid    | max    | Weight |
|---------|----|----------------|--------|-------|--------|--------|--------|-------|-------|--------|--------|--------|
| Type    | V  | C <sub>5</sub> | cond.  | Ter-  | Colour | length | length | width | width | height | height | [kg]   |
|         |    |                | Series | minal | Box    | [mm]   | [mm]   | [mm]  | [mm]  | [mm]   | [mm]   |        |
| GF      | 12 | 110            | V      |       |        | 513    | 475    | 223   | 210   | 195    | 219    | 45,5   |

Tightening Torque Values of connectors to Terminal  
conical terminal according EN 60095-2

8 ± 1Nm

### 2. Performance Data

| Discharge rate | Capacity     | End Of DCH Voltage DOD |             | Effective DCH Time DOD |            | Energy Density |             | Power Density |            |
|----------------|--------------|------------------------|-------------|------------------------|------------|----------------|-------------|---------------|------------|
|                |              | 60%                    | 80%         | 60%                    | 80%        | [Wh/l]         | [Wh/kg]     | [W/l]         | [W/kg]     |
| [h]            | [Ah]         | [V]                    |             | [h]                    |            |                |             |               |            |
| 20,0           | 116,0        | 2,01                   | 1,98        | 11,4                   | 15,2       | 67,7           | 30,7        | 3,4           | 1,5        |
| 10,0           | 114,0        | 2,00                   | 1,97        | 5,8                    | 7,7        | 66,2           | 30,1        | 6,6           | 3,0        |
| <b>5,0</b>     | <b>110,0</b> | <b>1,98</b>            | <b>1,93</b> | <b>3,0</b>             | <b>4,0</b> | <b>62,6</b>    | <b>28,4</b> | <b>12,5</b>   | <b>5,7</b> |
| 3,0            | 102,0        | 1,96                   | 1,89        | 1,9                    | 2,6        | 57,8           | 26,2        | 19,3          | 8,7        |
| 2,0            | 96,0         | 1,93                   | 1,78        | 1,4                    | 1,8        | 53,0           | 24,1        | 26,5          | 12,0       |
| 1,0            | 85,0         | 1,90                   | 1,63        | 0,8                    | 1,0        | 45,9           | 20,8        | 45,9          | 20,8       |
| 0,5            | 69,0         | 1,57                   | 1,57        | 0,5                    | 0,5        | 36,3           | 16,5        | 72,6          | 32,9       |
| 0,2            | 53,8         | 1,40                   | 1,40        | 0,2                    | 0,2        | 28,0           | 12,7        | 139,9         | 63,5       |

Typical values after 20 - 50 C<sub>5</sub> cycles at 30°C

recommended max. Load \*)

220 A

\*) With appropriate counter contacts only

Cyclic endurance according IEC 254-1

700

Temperature Regime (Depending on DOD)

-20 °C up to 50 °C

Typical Operational Temperature Regime

5 °C up to 40 °C

### 3. Charging

Charging Profile(s)  
according GNB specification

IUIa

Charging time / Ladezeit

10 - 14h

We reserve the right to discontinue or change specification  
any time without notice or obligation