

## GF12160V 12V 160Ah

### 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  |    |                | minial | Box  | [mm]   | [mm]   | [mm]   | [mm]  | [mm]  | [mm]   | [mm]   |        |
| GF      | 12 | 160            | V      |      |        | 518    | 475    | 274   | 265   | 216    | 238    | 62,5   |

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           | 196,0        | 2,01                   | 1,98        | 9,8                    | 13,1       | 84,1           | 37,8        | 4,2           | 1,9        |
| 10,0           | 174,0        | 2,00                   | 1,97        | 5,5                    | 7,4        | 74,3           | 33,4        | 7,4           | 3,3        |
| <b>5,0</b>     | <b>160,0</b> | <b>1,98</b>            | <b>1,93</b> | <b>3,0</b>             | <b>4,0</b> | <b>66,9</b>    | <b>30,1</b> | <b>13,4</b>   | <b>6,0</b> |
| 3,0            | 150,0        | 1,96                   | 1,89        | 1,9                    | 2,6        | 62,4           | 28,1        | 20,8          | 9,4        |
| 2,0            | 138,0        | 1,93                   | 1,78        | 1,4                    | 1,9        | 56,0           | 25,2        | 28,0          | 12,6       |
| 1,0            | 115,0        | 1,90                   | 1,63        | 0,8                    | 1,0        | 45,7           | 20,5        | 45,7          | 20,5       |
| 0,5            | 98,0         | 1,57                   | 1,57        | 0,5                    | 0,5        | 37,9           | 17,0        | 75,7          | 34,1       |
| 0,2            | 75,0         | 1,40                   | 1,40        | 0,2                    | 0,2        | 28,7           | 12,9        | 143,3         | 64,4       |

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

recommended max. Load \*)

320 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