

# Datasheet Gel Type VRLA Batteries

## 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	минаl	Box	[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]		[Wh/l]	[Wh/kg]	[W/l]	[W/kg]
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