

## 12V 51Ah

### 1. Physical Data

#### Box Data

Battery		CHG		Lid	max	basic	max	basic	Lid	max	Weight	
Type	V	C <sub>5</sub>	cond. Series	Ter- minal	Colour Box	length [mm]	length [mm]	width [mm]	width [mm]	height [mm]	height [mm]	[kg]
GF	12	051	Y			278	265	175	162	190	190	20,8
GF	12	051	Y	G		278	265	175	162	190	190	20,8
GF	12	051	Y		2	278	265	175	162	190	190	20,8
GF	12	051	Y	G	3	272	272	166	162	171	190	20,8

Tightening Torque Values of connectors to Terminal

conical terminal according EN 60095-2  $8 \pm 1\text{Nm}$   
 Flat for M6 Screw  $6 \pm 1\text{Nm}$

### 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	56,0	2,01	1,98	10,9	14,6	87,5	32,5	4,4	1,6
10,0	53,5	2,00	1,97	5,7	7,6	83,1	30,9	8,3	3,1
<b>5,0</b>	<b>51,0</b>	<b>1,98</b>	<b>1,93</b>	<b>3,0</b>	<b>4,0</b>	<b>77,7</b>	<b>28,8</b>	<b>15,5</b>	<b>5,8</b>
3,0	45,9	1,96	1,89	2,0	2,7	69,6	25,8	23,2	8,6
2,0	41,4	1,93	1,78	1,5	2,0	61,1	22,7	30,6	11,3
1,0	34,0	1,90	1,63	0,9	1,0	49,1	18,2	49,1	18,2
0,5	27,5	1,57	1,57	0,5	0,5	38,7	14,4	77,4	28,7
0,2	20,0	1,40	1,40	0,2	0,2	27,8	10,3	139,1	51,6

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

recommended max. Load \*)  $100\text{ A}$

\*) With appropriate counter contacts only

Cyclic endurance according IEC 254-1  $450$

Temperature Regime (Depending on DOD)  $-20\text{ °C}$  up to  $50\text{ °C}$

Typical Operational Temperature Regime  $5\text{ °C}$  up to  $40\text{ °C}$

### 3. Charging

Charging Profile(s) IU1a

according GNB Specification

Fast Charge Possible

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