

# Datasheet Gel Type VRLA Batteries

## 12V 50Ah

### 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	050	V			278	265	175	162	190	190	20
GF	12	050	V	G		278	265	175	162	190	190	20

Tightening Torque Values of connectors to Terminal

conical terminal according EN 60095-2

8 ± 1Nm

Flat for M6 Screw

6 ± 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	55,0	2,01	1,98	10,9	14,5	75,3	33,2	3,8	1,7
10,0	53,0	2,00	1,97	5,7	7,5	72,2	31,8	7,2	3,2
<b>5,0</b>	<b>50,0</b>	<b>1,98</b>	<b>1,93</b>	<b>3,0</b>	<b>4,0</b>	<b>66,7</b>	<b>29,4</b>	<b>13,3</b>	<b>5,9</b>
3,0	45,0	1,96	1,89	2,0	2,7	59,8	26,3	19,9	8,8
2,0	41,0	1,93	1,78	1,5	2,0	53,0	23,4	26,5	11,7
1,0	33,5	1,90	1,63	0,9	1,0	42,4	18,7	42,4	18,7
0,5	27,0	1,57	1,57	0,5	0,5	33,3	14,7	66,6	29,3
0,2	20,0	1,40	1,40	0,2	0,2	24,4	10,7	121,9	53,7

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

recommended max. Load \*)

100 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)

IUIa

according EXIDE Technologies Specification

Fast Charge

Possible

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