

## Datasheet Gel Type VRLA Batteries

12V 33Ah

### 1. Physical Data

#### Box Data

Battery			CHG		Version	max length	basic length	max width	basic width	Lid height	max height	Weight
Type	V	C <sub>5</sub>	cond.	Ter- minal								
GF	12	033	Y			210	195	175	175	175	175	14,6
GF	12	033	Y	G		210	195	175	175	175	175	14,6

#### 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	38,0	2,01	1,98	10,2	13,6	76,7	31,4	3,8	1,6
10,0	35,0	2,00	1,97	5,5	7,4	70,3	28,8	7,0	2,9
5,0	32,3	1,98	1,93	3,0	4,0	63,6	26,0	12,7	5,2
3,0	28,5	1,96	1,89	2,0	2,7	55,8	22,8	18,6	7,6
2,0	25,7	1,93	1,78	1,5	2,0	49,1	20,1	24,5	10,0
1,0	22,5	1,90	1,63	0,9	1,0	42,0	17,2	42,0	17,2
0,5	19,5	1,57	1,57	0,5	0,5	35,5	14,5	70,9	29,0
0,2	15,0	1,40	1,40	0,2	0,2	27,0	11,0	134,9	55,2

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

recommended max. Load \*)

60 A

\*) With appropriate counter contacts only

Cyclic endurance according IEC 254-1

450

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

Vertriebspartner:



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