

Datasheet Gel Type VRLA Batteries

12V 33Ah

1. Physical Data

Box Data

Battery			CHG cond.		Lid Colour	max length	basic length	max width	basic width	Lid height	max height	Weight
Type	V	C ₅	Series	Terminal	Box	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
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 C₅ 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

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