

Datasheet Gel Type VRLA Batteries

GF12090V 12V 90Ah

1. Physical Data

Box Data

Battery			CHG	Ter- minal	Lid	max	basic	max	basic	Lid	max	Weight
Type	V	C ₅	cond. Series		Colour Box	length [mm]	length [mm]	width [mm]	width [mm]	height [mm]	height [mm]	[kg]
GF	12	090	V			513	475	189	178	195	219	39

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	96,0	2,01	1,98	11,3	15,0	66,1	29,7	3,3	1,5
10,0	93,0	2,00	1,97	5,8	7,7	63,7	28,6	6,4	2,9
5,0	90,0	1,98	1,93	3,0	4,0	60,5	27,1	12,1	5,4
3,0	84,0	1,96	1,89	1,9	2,6	56,1	25,2	18,7	8,4
2,0	76,0	1,93	1,78	1,4	1,9	49,5	22,2	24,7	11,1
1,0	66,0	1,90	1,63	0,8	1,0	42,1	18,9	42,1	18,9
0,5	56,0	1,57	1,57	0,5	0,5	34,7	15,6	69,5	31,2
0,2	44,0	1,40	1,40	0,2	0,2	27,0	12,1	135,0	60,6

Typical values after 20 - 50 C₅ cycles at 30°C

recommended max. Load *)

180 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