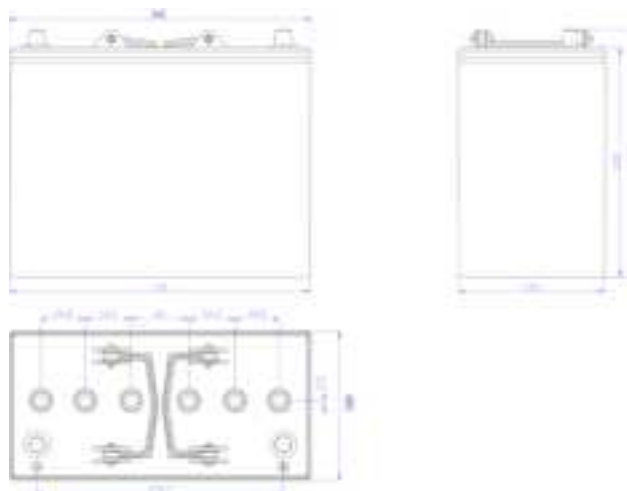




Physical Dimension



Benefits

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

Application

- Caravans and mobile homes
- Boats
- Electrical vehicles
- Solar systems
- UPS systems...

Standards

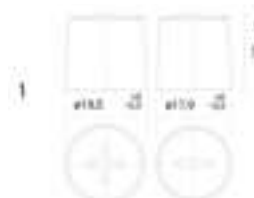
- EN 60254-1
- EN 61427-1
- EN 60896-21

Specification

Technology	
Battery Type	Gel
Plate Type (poz/neg)	Casted/Casted
Grid Alloy (poz/neg)	Ca/Ca
Separator	Hi Sep PG
Dimensions (mm) - LxWxH	342x169x259/280
Weight (kg)	37,9
Box Type	120 Compact
Box/Cover/Plugs Colour	Grey/Grey/Black
BHD	B0
Cover Type	Flat
Polarity	0
Terminal	1
Filter	/
Plugs Type	M18
Packaging (pcs) - EU/CNT pallet	24/36

Performance		
Voltage (V)		12
Capacity (Ah)	C1	83
	C3	98
	C5	105
	C10	120
	C20	125
	C100	140
Internal Resistance (mΩ)		6,90
Self discharge/month (%)		< 2

Terminal:



Polarity:



105 Gel, 62512

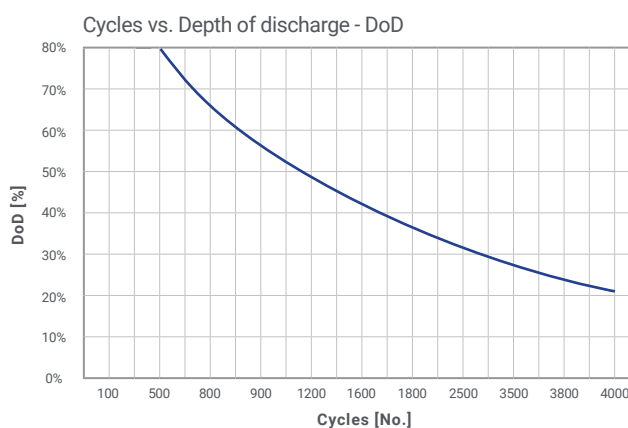
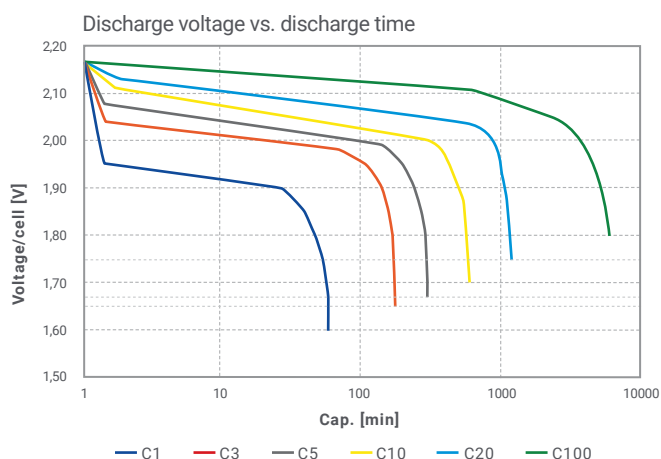
Discharge data [25°C]

Time to voltage at constant discharge current

105 Gel	Cap.	C1	C3	C5	C10	C20	C100
	Cap. [Ah]	83	98	105	120	125	140
	Idch [A]	83	32,7	21	12	6,25	1,40
End voltage		Time [min.]					
[V/cel.]	[V/bat.]						
1,60	9,60	60	182	304	610	1239	6960
1,65	9,90	59	180	303	607	1232	6860
1,67	10,02	59	179	300	606	1225	6730
1,70	10,20	57	178	299	600	1217	6550
1,75	10,50	54	174	296	595	1200	6315
1,80	10,80	49	169	289	580	1179	6000
1,85	11,10	40	158	274	551	1131	5640
1,90	11,40	28	140	244	498	1037	4920
1,95	11,70	0,8	110	199	416	882	3960
2,00	12,00	0,2	72	141	311	671	2940

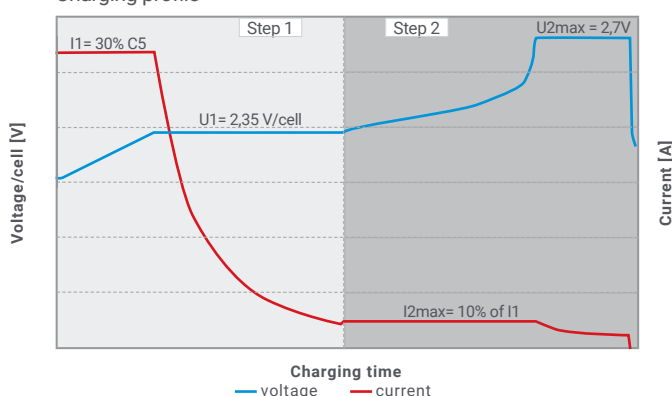
Capacity to voltage at constant current

105 Gel	Cap.	C1	C3	C5	C10	C20	C100
	Cap. [Ah]	83	98	105	120	125	140
	Idch [A]	83	32,7	21	12	6,25	1,40
End voltage		Cap. [Ah]					
[V/cel.]	[V/bat.]						
1,60	9,60	83,0	99,1	106,5	122,1	129,0	162,4
1,65	9,90	81,8	98,0	105,9	121,4	128,3	160,1
1,67	10,02	81,0	97,6	105,0	121,1	127,6	157,0
1,70	10,20	79,5	96,8	104,6	120,0	126,8	152,8
1,75	10,50	75,3	95,1	103,6	119,0	125,0	147,4
1,80	10,80	67,9	92,3	101,1	115,9	122,8	140,0
1,85	11,10	55,7	86,2	95,8	110,1	117,9	131,6
1,90	11,40	38,3	76,2	85,5	99,6	108,0	114,8
1,95	11,70	1,1	60,1	69,6	83,3	91,8	92,4
2,00	12,00	0,3	39,5	49,5	62,2	69,9	68,6



Charging recommendation [25°C]

Charging profile



For cycling use:

Step 1	Umax	2,35 V/cell
	$I_1 = 30\% C_5$	$I_1 = 105 \times 0,3 \Rightarrow 31,5 \text{ A}$
	Time; T1*	5h

*Optimal definition of T1 = Stop step 1 charge when I_1 is less than 10% (for 105Ah < 3,15A)

Step 2	Umax	2,7 V/Cell
	$I_2 = 10\% \text{ of } I_1$	$I_2 = I_1 \times 0,1 (31,5 \text{ A} \times 0,1 = 3,15 \text{ A})$
	Time; T2**	3h

**Optimal definition of T2 is related to T1:

If T1 < 1h	T2 = 1h	If T1 > 3h and < 5h	T2 = 3h
If T1 > 1h and < 3h	T2 = 2h	If T1 > 5h	T2 = 4h

Umax is defined for 25°C, otherwise temperature compensation is recommended 0,005V/°C per cell.

To achieve fully charged battery:

Step 1	Umax	2,35 V/cell
	$I_1 = 30\% C_5$	$I_1 = 105 \times 0,3 \Rightarrow 31,5 \text{ A}$
	Time; T1*	5h

Step 2	Umax	2,7 V/Cell
	$I_2 = 10\% \text{ of } I_1$	$I_2 = I_1 \times 0,1 (31,5 \text{ A} \times 0,1 = 3,15 \text{ A})$
	Time; T2**	3h

Charging takes place @25°C