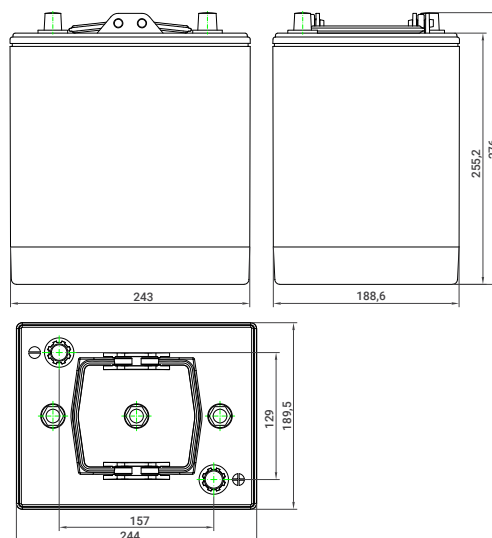


TAB Motion Gel

180 Golf Cart Gel



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	244x189,5x255,2/276
Weight (kg)	30,9
Box Type	GOLF CART
Box/Cover/Plugs Colour	Grey/Grey/Black
BHD	B0
Cover Type	Flat
Polarity	5
Terminal	1
Filter	/
Plugs Type	M18
Packaging (pcs) - EU/CNT pallet	36/48

Performance		
Voltage (V)		6
Capacity (Ah)	C1	132
	C3	169
	C5	180
	C10	190
	C20	210
	C100	235
Internal Resistance (mΩ)		2,0
Self discharge/month (%)		< 2

180 Golf Cart Gel

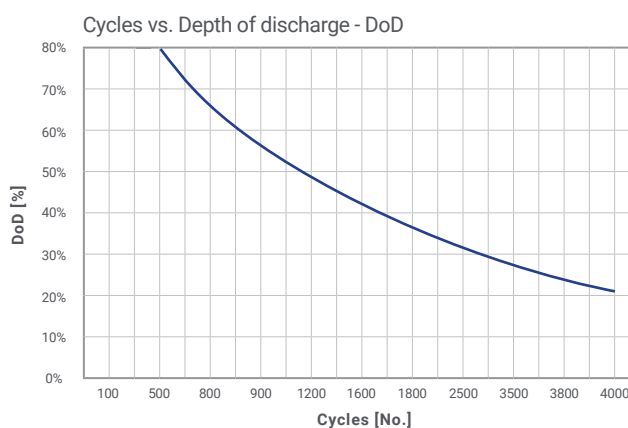
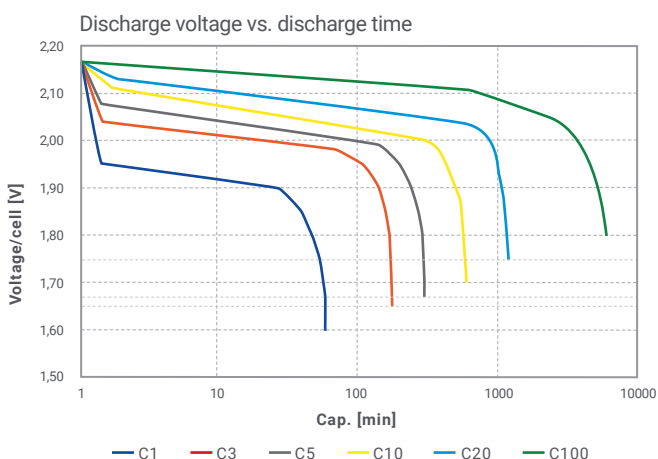
Discharge data [25°C]

Time to voltage at constant discharge current

GC	Cap.	C1	C3	C5	C10	C20	C100
	Cap. [Ah]	132	169	180	190	210	235
	Idch [A]	132	56,3	36	19	10,5	2,35
End voltage		Time [min.]					
[V/cel.] [V/bat.]							
1,60	4,80	60	181	305	604	1265	6914
1,65	4,95	59	180	302	601	1257	6825
1,67	5,01	58	179	300	600	1249	6674
1,70	5,10	57	178	300	600	1227	6513
1,75	5,25	55	176	297	589	1200	6276
1,80	5,40	49	169	289	574	1181	6000
1,85	5,55	40	156	273	545	1135	5586
1,90	5,70	26	135	242	492	1037	4887
1,95	5,85	0,7	103	195	408	875	3955
2,00	6,00	0,1	61	135	297	658	2941

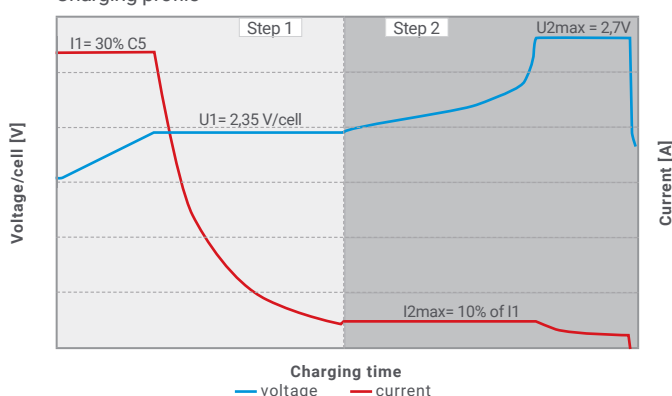
Capacity to voltage at constant current

GC	Cap.	C1	C3	C5	C10	C20	C100
	Cap. [Ah]	132	169	180	190	210	235
	Idch [A]	132	56,3	36	19	10,5	2,35
End voltage		Cap. [Ah]					
[V/cel.] [V/bat.]							
1,60	4,80	132,0	170,1	183,1	191,3	221,4	270,8
1,65	4,95	129,5	169,0	181,4	190,4	219,9	267,3
1,67	5,01	128,3	168,3	180,0	189,9	218,5	261,4
1,70	5,10	126,0	167,3	179,7	190,0	214,8	255,1
1,75	5,25	119,9	165,4	177,9	186,6	210,0	245,8
1,80	5,40	107,7	158,8	173,4	181,9	206,7	235,0
1,85	5,55	87,4	146,4	163,7	172,7	198,6	218,8
1,90	5,70	58,1	126,3	145,0	155,9	181,5	191,4
1,95	5,85	1,6	96,4	116,7	129,2	153,1	154,9
2,00	6,00	0,3	57,7	81,1	94,2	115,1	115,2



Charging recommendation [25°C]

Charging profile



For cycling use:

Step 1	Umax	2,35 V/cell
	I1 = 30% C5	I1 = 180 x 0,3 => 54A
	Time; T1*	5h

*Optimal definition of T1 = Stop step 1 charge when I1 is less than 10% (for 180Ah < 5,40A)

Step 2	Umax	2,7 V/Cell
	I2 = 10% of I1	I2 = I1 x 0,1 (54,0A x 0,1=5,40A)
	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
	I1 = 30% C5	I1 = 180 x 0,3 => 54A
	Time; T1*	5h

Charging takes place @25°C

Step 2	Umax	2,7 V/Cell
	I2 = 10% of I1	I2 = I1 x 0,1 (54,0A x 0,1=5,40A)
	Time; T2**	3h

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P. I. Mora Garay, C/ Isaac Peral, 55 33211 GIJÓN
Pocomaco - Parcela, G-4 - 15190 LA CORUÑA

Oficinas Comerciales
Pso. de la Castellana, 166 bajo 3 - 28046 MADRID

Centro Logístico
P. Miralcampo, C/ del Plástico, 4
19200 Azuqueca de Henares GUADALAJARA

Almacén y Oficinas Islas Canarias
P.I Güinar, Manzana XV, nave 5
38508 Güimar STA. CRUZ DE TENERIFE