

# SMALL TRACTION BLOCK BATTERIES



**TAB** 



## TAB Motion Pasted

is a flooded small traction battery with flat grid plates.

### ADVANTAGES:

- + excellent vibration resistance,
- + high rate discharge capability,
- + high performance in difficult working conditions,
- + economical and reliable ...

### APPLICATIONS:

- + wheelchairs,
- + truck applications,
- + caravans and motorhomes,
- + battery driven carts,
- + boats,
- + cleaning machines,
- + solar systems ...

### CHARGING:

- + TAB Motion batteries can be recharged with 50 Hz or HF charger. The charging profile is Wa; WoWa, IUla; WUIa acc. to DIN 41773 and 41774.



## TAB Motion Pasted

Number of cycles: 300 (IEC / EN 60254-1 / 25 °C)

Art. No.	Type	C100 (Ah)	C20 (Ah)	C5 (Ah)	Box Type	Voltage (V)	L×W×H (mm)	BHD	Layout	PCS per Pallet (EUR/CNT)	Weight (kg)
207060	50P	70	60	50	L2	12	242×175×190	B13	0	57/90	16,7
207075	60P	80	75	60	L3	12	278×175×190	B13	0	48/80	19,3
207105	85P	105	95	85	L5	12	353×175×190	B13	0	36/60	26,2
206095	80P	115	90	80	59518	12	312×175×212	B0	0	36/60	23,9
205105	105P	125	115	105	60528	12	344×172×212/234	B0	0	36/48	29,9
206125	110P	155	135	110	62512	12	344×172×262/284	B0	0	24/36	37,2
205135	110P MAC	145	125	110	MAC 110	12	509×175×182/208	B0	3	24/40	35,1
205180	150P	190	180	150	B	12	512×223×194/220	B0	3	21/28	46,8
205225	190P	245	225	190	C	12	518×273×214/240	B0	3	18/24	60,8

## TAB Motion Tubular

is a flooded small traction battery with robust tubular positive plates.

### ADVANTAGES:

- + premium tubular plate construction with free electrolyte ensures long operating life,
- + high rate discharge capability,
- + perfect solution for applications which are used in difficult working conditions,
- + reliable and durable - gives 1200 cycles performance ...

### APPLICATIONS:

- + golf carts,
- + cleaning machines,
- + wheelchairs,
- + mobile elevating work platforms,
- + electric elevating platform trucks,
- + solar system ...

### CHARGING:

- + TAB Motion batteries can be recharged with 50 Hz or HF charger. The charging profile is Wa; WoWa, IUla; WUIa acc. to DIN 41773 and 41774.



## TAB Motion Tubular

Number of cycles: 1200 (IEC / EN 60254-1 / 25 °C)

Art. No.	Type	C100 (Ah)	C20 (Ah)	C5 (Ah)	Box Type	Voltage (V)	L×W×H (mm)	BHD	Layout	PCS per Pallet (EUR/CNT)	Weight (kg)
113812	55T	65	60	55	L3	12	278×175×190	B13	0	48/80	18,2
111812	90T	115	110	90	59518	12	303×175×228	B1	0	42/60	28,7
101812	95 T	130	115	95	60528	12	344×172×212/234	B0	0	36/48	30,0
100812	120T	155	140	120	62512	12	344×172×262/284	B0	0	24/36	37,3
112812	145T	180	165	145	B	12	512×223×194/220	B0	3	21/28	47,3
8372395	Golf Cart T	240	220	180		6	244×190×270/281	B0	0	24/36	30,5
8380967	Golf Cart TS	270	250	210		6	244×190×270/281	B0	0	24/36	31,5



**TAB Motion AGM** is a VRLA (Valve Regulated Lead Acid) battery produced in Absorption Glass Mat technology according to EN 60254-1 standard.

**ADVANTAGES:**

- + 30 % higher energy density in comparison with flooded battery,
- + very low self-discharge rate,
- + no corrosive exhaust (applicable for food industry and pharmacy),
- + robust desing, stroke and vibration resistant,
- + low charging factor (1,08) lowers energy consumption,
- + electrolyte is kept immobilized in AGM (prevents leakage if housing is broken),
- + maintenance free - install and forget,
- + high starting performance...

**APPLICATIONS:**

- + caravans and mobile homes,
- + boats,
- + wheelchairs,
- + cleaning machines,
- + alarm systems,
- + UPS and PV systems ...

**CHARGING:**

- + chargers with IU and IUa charging characteristic
- + cycling regime  
IU, WU / U = 14,4 - 14,8 V
- + continuous charging  
IU, WU / U = 13,5 - 13,8 V



**TAB Motion AGM**

Number of cycles: 400 (IEC / EN 60254-1 / 25 °C)

Art. No.	Type	C100 (Ah)	C20 (Ah)	C5 (Ah)	Box Type	Voltage (V)	L×W×H (mm)	BHD	Layout	PCS per Pallet (EUR/CNT)	Weight (kg)
172060	45 AGM	<b>65</b>	<b>60</b>	<b>45</b>	L2	12	242×175×190	B13	0	57/90	18,5
172070	55 AGM	<b>75</b>	<b>70</b>	<b>55</b>	L3	12	278×175×190	B13	0	48/80	21,5
172080	60 AGM	<b>85</b>	<b>80</b>	<b>60</b>	L4	12	315×175×190	B13	0	36/60	24,0
172090	70 AGM	<b>100</b>	<b>95</b>	<b>70</b>	L5	12	353×175×190	B13	0	36/60	27,0

**TAB Motion GEL** is a VRLA (Valve Regulated Lead Acid) battery which consists of Ca grid plates in special alloy with gel electrolyte. Casing is made of reinforced PP material. All this makes the battery reliable, maintenance-free all-rounder.

**ADVANTAGES:**

- + completely maintenance free - install and forget,
- + very low self-discharge rate,
- + electrolyte is kept immobilized in GEL (prevents stratification of electrolyte, protected against spilling),
- + self-discharge less than 2 % a month which means less difficulties during transport and storage, depends on temperature,
- + no corrosive exhaust (applicable for food industry and pharmacy),
- + robust design, stroke and vibration resistant ...

**CHARGING** acc. to DIN41773 (IU-characteristic):

**VOLTAGE CHARGING**

- + cyclic application: 14,30 - 14,50 V
- + stationary application: 13,40 - 13,70 V
- + temperature compensation 30 mV/K

**CURRENT CHARGING**

- + maximum current is 30 % capacity C20 (e.g. C20 = 100Ah, I<sub>max</sub> = 1,5A)

**APPLICATIONS:**

- + caravans and mobile homes,
- + boats,
- + cleaning machines,
- + electrical vehicles,
- + solar systems
- + UPS systems ...



**TAB Motion GEL**

Number of cycles: 500 (IEC / EN 60254-1 / 25 °C)

Art. No.	Type	C100 (Ah)	C20 (Ah)	C5 (Ah)	Box Type	Voltage (V)	L×W×H (mm)	BHD	Layout	PCS per Pallet (EUR/CNT)	Weight (kg)
215060	50 GEL	<b>70</b>	<b>60</b>	<b>50</b>	L3	12	278×175×190	B13	0	57/90	19,7
215080	70 GEL	<b>90</b>	<b>80</b>	<b>70</b>	L5	12	353×175×190	B13	0	36/60	25,5
215085	75 GEL	<b>100</b>	<b>85</b>	<b>75</b>	60528	12	352×175×211/232	B1	0	36/48	29,2
215150	130 GEL	<b>165</b>	<b>150</b>	<b>130</b>	B	12	509×223×195/222	B0	3	21/28	47,5
215210	180 GEL	<b>235</b>	<b>210</b>	<b>180</b>	C	12	518×273×214/240	B0	3	18/24	71,2



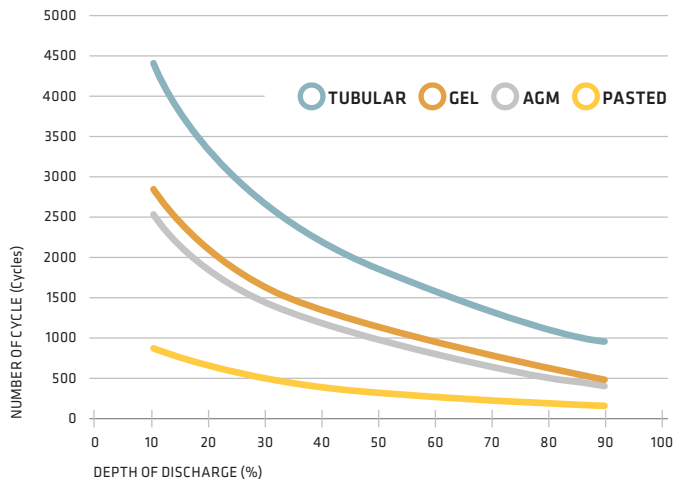
## DoD - Number of Cycles

**TAB Motion in flooded and VRLA technology** is a range of block batteries for all applications in small traction and leisure segment.

**TAB Motion pasted** and **TAB Motion tubular** are flooded batteries while **TAB Motion AGM** and **TAB Motion Gel** are gas recombination batteries. Both ranges have highest cyclic durability.

### OPERATION:

To achieve optimal operating life avoid deep discharges. Never leave battery in a discharged state. Electrolyte level for flooded batteries has to be checked regularly and then filled with demineralized water (DIN43530-4). The single point automatic watering system can be considered on some types. Valve regulated batteries with absorbed electrolyte (AGM) or gel electrolyte are sealed for life and need no watering.

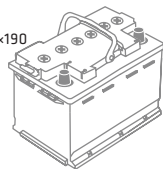


### BOX TYPE

(L×W×H)

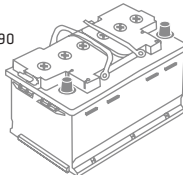
L2

242×175×190



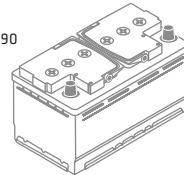
L3

278×175×190



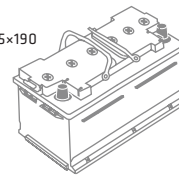
L4

315×175×190



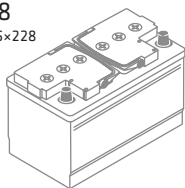
L5

353×175×190



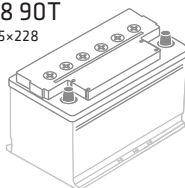
59518

303×175×228



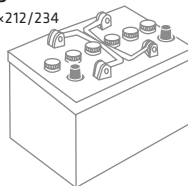
59518 90T

303×175×228



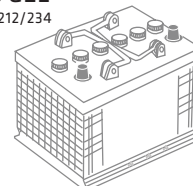
60528

344×172×212/234



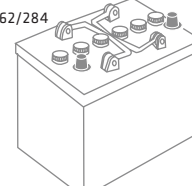
60528 GEL

352×175×212/234



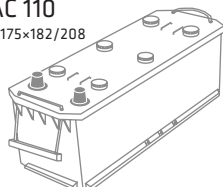
62512

344×172×262/284



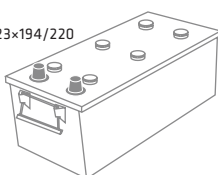
MAC 110

509×175×182/208



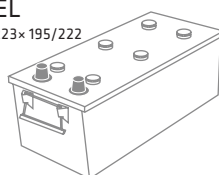
B

512×223×194/220



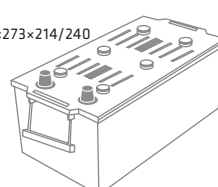
B GEL

509×223×195/222



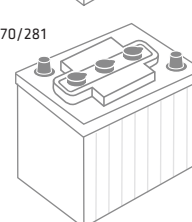
C

518×273×214/240



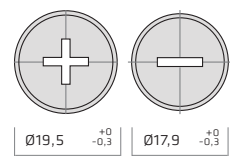
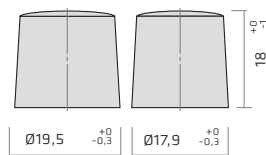
GOLF

244×190×270/281



### TERMINALS

Terminal 1

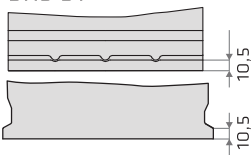


### BASE HOLD DOWN

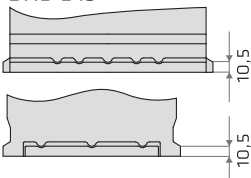
BHD B0



BHD B1

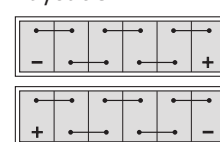


BHD B13

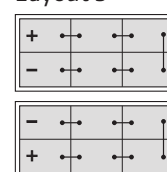


### LAYOUT

Layout 0



Layout 3



Layout GOLF

