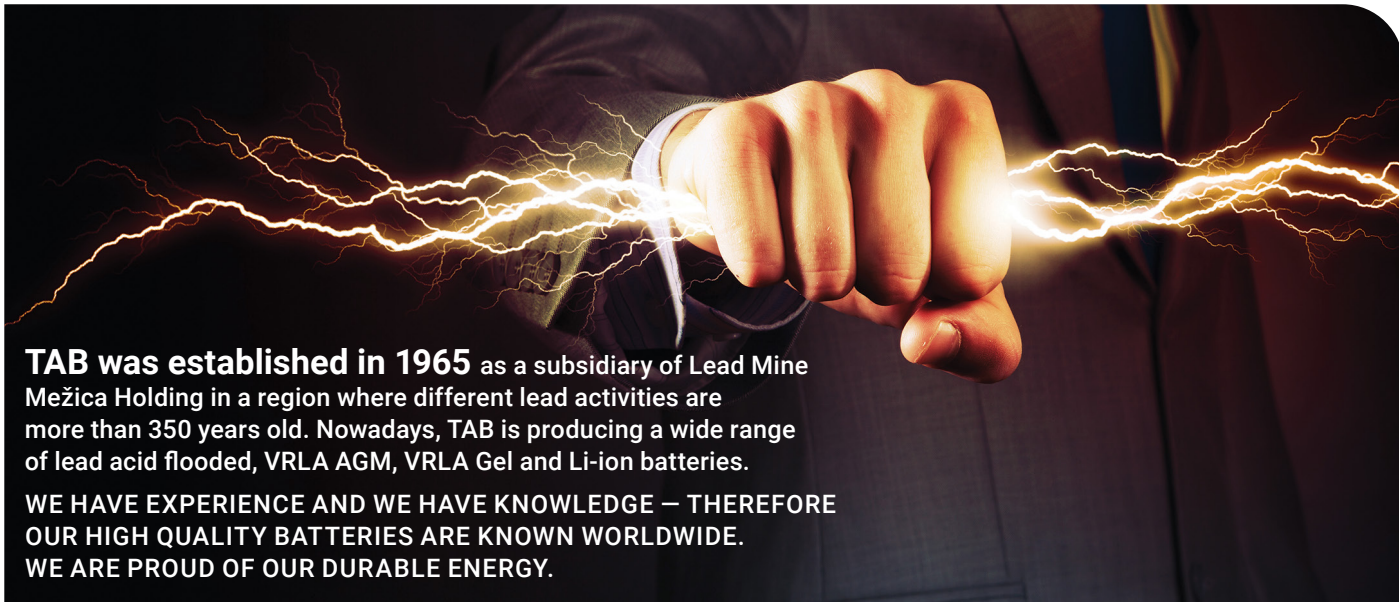


# TAB STARTER BATTERIES



# TAB

TAB POLAR  
TAB MAGIC  
TAB POLAR TRUCK  
TAB MAGIC TRUCK  
TAB EFB Stop & Go  
TAB AGM Stop & Go  
TAB OEM



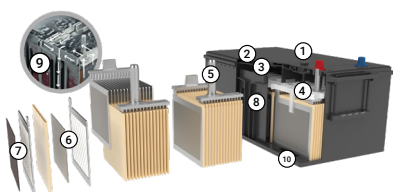
**TAB was established in 1965** as a subsidiary of Lead Mine Mežica Holding in a region where different lead activities are more than 350 years old. Nowadays, TAB is producing a wide range of lead acid flooded, VRLA AGM, VRLA Gel and Li-ion batteries.

**WE HAVE EXPERIENCE AND WE HAVE KNOWLEDGE – THEREFORE OUR HIGH QUALITY BATTERIES ARE KNOWN WORLDWIDE. WE ARE PROUD OF OUR DURABLE ENERGY.**

TAB tovarna akumulatorskih baterij d.d., Polena 6, SI-2392 Mezica, Slovenia | info@tab.si | +386 (0)2 8702 300 | www.tab.si

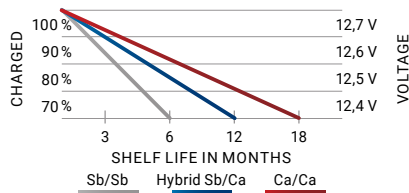
# ENERGY IN MOTION

## V4 TRUCK BATTERIES C AND B BOX

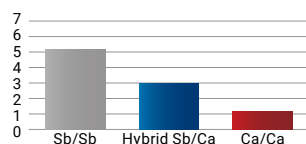


- 1 Electrolyte level indicator – Magic Eye
- 2 Top SMF lid with central degassing and flame arrestors
- 3 Main lid with labyrinth for additional safety and very low water loss
- 4 VTL (Vibration Top Locking) elements, improving vibration resistance of the battery (V4)
- 5 Robust plate connectors with large surface inter cell welds, increase cranking power
- 6 Negative plates with additives to increase charge acceptance. Permanent sulfation is minimized
- 7 Positive plates with thick casted grids. High-density active mass to increase cycle life and enhance resistance to deep discharge
- 8 Integrated internal flexible ribs generate adequate pressure to the plate stack in all states of charge
- 9 New cell design promotes electrolyte motion in vertical direction, eliminating stratification
- 10 Impact resistant polypropylene container

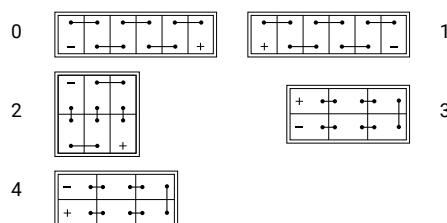
### Allowable shelf life (SELFDISCHARGE)



### Water consumption (g/Ah)



### Layout

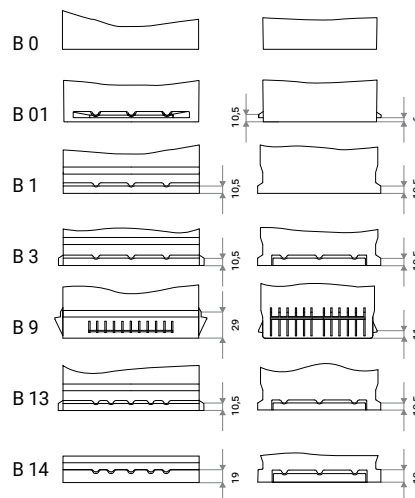


### Glossary of remarks

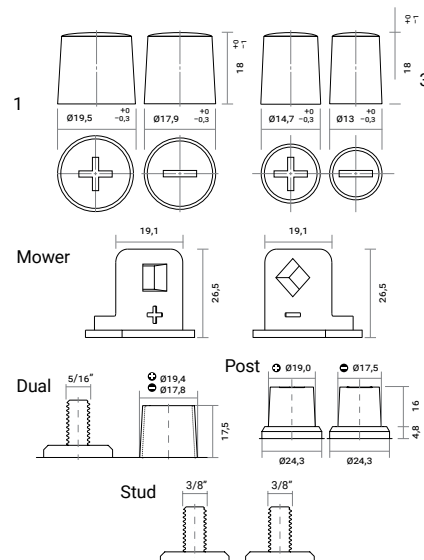
- K** Kamina
- H** Handle
- KH** Kamina Handle
- ME** Magic Eye
- HD** Heavy Duty
- SMF** Maintenance Free = Sealed
- P** Post Poles
- JIS** Japanese Poles
- DP** Dual Poles
- A** Pole Adapter
- AGM** Absorbed Glass Mat
- EMS** Electrolyte Mixing System
- M** Lawn Mower Battery
- S** Stud Poles

All measures and weights are within standard production tolerances. Technical modifications are reserved without prior notice. Weight tolerance is ± 5%.

### Base hold down



### Terminals



**TAB POLAR** is battery produced using Ca/Ca expanded metal technology designed for vehicles with entry level of electric equipment with demand of superior starting, performance and reliability. TAB Polar is real all rounder offering excellent power, capacity, cold start performance and reliability. SMF lid/cover provides complete roll over spill protection and is entirely maintenance free throughout the batteries life. This is high quality product for vehicles of every class.

- + High starting capabilities
- + Sealed cover construction
- + Explosion protection prevents flame break-in into the battery
- + Reliable starting at extreme climatic conditions



## TAB POLAR

Flooded starter batteries, Ca/Ca technology

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000823		U1R-25	25	36	U1	250	196×127×159/185	B0	0	7,2	96/128	SMF, H, M
1000825		U1-25	25	36	U1	250	196×127×159/185	B0	1	7,2	96/128	SMF, H, M
1000824		U1R-32	32	48	U1	350	196×127×159/185	B0	0	8,0	96/128	SMF, H, M
1000826		U1-32	32	48	U1	350	196×127×159/185	B0	1	8,0	96/128	SMF, H, M
1000861	54506	P45	45	71	L0	400	175×175×190	B13	0	10,5	72/120	K
1000864	54002 SMF	S40	40	62	L1B	360	207×175×175	B13	0	10,7	72/120	SMF, H
1000876	54003 SMF	S40X	40	62	L1B	360	207×175×175	B13	1	10,7	72/120	SMF, H
1000865	54502 SMF	S45	45	71	L1B	420	207×175×175	B13	0	11,2	72/120	SMF, H
1000914	54559 SMF	P45H	45	71	L1	400	207×175×190	B13	0	11,7	72/100	SMF, H
1000866	55010 SMF	S50H	50	81	L1	450	207×175×190	B13	0	12,2	72/100	SMF, H
1000881	55001 SMF	P50	50	81	L2B	450	242×175×175	B13	0	12,7	63/108	SMF, H
1000867	55509 SMF	S55	55	90	L2B	500	242×175×175	B13	0	13,3	63/108	SMF, H
1000897	55559 SMF	P55H	55	90	L2	500	242×175×190	B13	0	13,9	63/90	SMF, H
1000868	56008 SMF	S60H	60	100	L2	600	242×175×190	B13	0	14,4	63/90	SMF, H
1000878	56013 SMF	S60HX	60	100	L2	600	242×175×190	B13	1	14,4	63/90	SMF, H
1000884	56309 SMF	P63	63	106	L3B	600	278×175×175	B13	0	15,5	51/96	SMF, H, HD
1000872	57309 SMF	S73	73	126	L3B	630	278×175×175	B13	0	15,9	51/96	SMF, H, HD
1000917	57009 SMF	S70H	70	120	L3	640	278×175×190	B13	0	16,1	51/80	SMF, H, HD
1000873	57412 SMF	S74H	74	128	L3	680	278×175×190	B13	0	17,2	51/80	SMF, H, HD
1000890	57413 SMF	S74HX	74	128	L3	680	278×175×190	B13	1	17,2	51/80	SMF, H, HD
1000888	59249 SMF	P92H	92	165	L4	800	315×175×190	B13	0	20,0	42/60	SMF, H, HD
1000875	59220 SMF	S92	92	165	L5B	800	353×175×175	B13	0	20,5	36/72	SMF, H, HD
1000901	58822 SMF	S90H	92	165	L5	800	353×175×190	B13	0	21,0	36/60	SMF, H, HD
1000907	60038 SMF	S10H	100	182	L5	850	353×175×190	B13	0	22,4	36/60	SMF, ME, H, HD
1000930	53520 SMF	S35J	35	53	B19	270	196×128×202/223	B0	0	9,4	96/128	SMF, H, JIS
1000942	53522 SMF	S35JX	35	53	B19	270	196×128×202/223	B0	1	9,4	96/128	SMF, H, JIS
1000923	53521 SMF	S35JP	35	53	B19	270	196×134×202/223	B01	0	9,4	96/128	SMF, H, JIS
1000877	54520 SMF	S45J	45	71	B19	360	196×134×202/223	B01	0	10,6	96/128	SMF, H, JIS, A
1000905	54522 SMF	S45JX	45	71	B19	360	196×134×202/223	B01	1	10,6	96/128	SMF, H, JIS, A
1000931	54523/84 SMF	S45JA	45	71	B24	360	236×128×202/223	B0	0	11,9	72/96	SMF, H, JIS, A
1000943	54524/51 SMF	S45JAX	45	71	B24	360	236×128×202/223	B0	1	11,9	72/96	SMF, H, JIS, A
1000932	55523/84 SMF	S55JA	55	90	B24	490	236×128×202/223	B0	0	13,5	72/96	SMF, H, JIS, A
1000924	55524/51 SMF	S55JAX	55	90	B24	490	236×128×202/223	B0	1	13,5	72/96	SMF, H, JIS, A
1000933	56068 SMF	S60J	60	100	D23	600	230×173×200/220	B01	0	14,9	60/90	SMF, ME, H
1000944	56069 SMF	S60JX	60	100	D23	600	230×173×200/220	B01	1	14,9	60/90	SMF, ME, H
1000935	56568 SMF	S65J	65	110	D23	650	230×173×200/220	B01	0	15,5	60/90	SMF, ME, H
1000945	56569 SMF	S65JX	65	110	D23	650	230×173×200/220	B01	1	15,5	60/90	SMF, ME, H
1000936	57029 SMF	S70J	70	120	D26	700	259×175×200/221	B1	0	17,3	48/80	SMF, ME, H
1000925	57024 SMF	S70JX	70	120	D26	700	259×175×200/221	B1	1	17,3	48/80	SMF, ME, H
1000937	57529 SMF	S75J	75	130	D26	740	259×175×200/221	B1	0	17,8	48/80	SMF, ME, H
1000926	57524 SMF	S75JX	75	130	D26	740	259×175×200/221	B1	1	17,8	48/80	SMF, ME, H
1000941	59518 SMF	S95J	95	171	D31	850	306×173×200/221	B01	0	20,9	42/70	SMF, ME, H
1000947	59519 SMF	S95JX	95	171	D31	850	306×173×200/221	B01	1	20,9	42/70	SMF, ME, H
1000920	BCI 31P SMF	P90BCIP	90	161	BCI 31	800	330×173×218/239	B1	0	23,4	42/60	SMF, ME, H, HD, P
1000928	BCI 31S SMF	P100BCIS	100	182	BCI 31	900	330×173×218/239	B1	0	24,3	42/60	SMF, ME, H, HD, S
1000909	BCI 31S SMF-D	S110BCID	110	203	BCI 31	1000	330×173×218/237	B1	0	26,2	42/60	SMF, ME, H, HD, DP

## TAB POLAR TRUCK

Flooded starter batteries, Sb/Ca technology | TRUCK batteries | Flat lid with M27 plugs

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000291	61028	TR11	110	203	60528	800	345×172×218/238	B0	0	26,5	36/48	H
1000293	61028	TR11P	110	203	60528	800	345×175×218/238	B1	0	26,5	36/48	H
1001908	61044	TR11M	110	203	MAC110	720	509×175×182/208	B3	3	31,1	24/40	H, HD
1000292	62512	TR12H	125	236	62512	800	345×172×269/289	B0	0	33,0	24/36	H
1003036	63530	TR13A	135	258	A	850	513×189×194/220	B0	3	35,6	24/35	H, HD
1001912	63544	TR13M	135	258	MAC110	850	509×175×182/208	B3	3	33,3	24/40	H, HD
1003038	63545	TR13MR	135	258	MAC110	850	509×175×182/208	B3	4	33,3	24/40	H, HD
1001915	65048	TR15M	150	292	MAC110	1000	509×175×182/208	B3	3	36,9	24/40	H, HD
1000479	67018	TR17	170	338	B	1050	512×222×194/221	B0	3	42,7	21/28	H, HD, EMS
1000480	67019	TR17R	170	338	B	1050	512×222×194/221	B3	4	42,7	21/28	H, HD, EMS
1000482	68032	TR18	180	361	B	1100	512×222×194/221	B0	3	43,3	21/28	H, HD, EMS
1000495	69032	TR19	190	385	B	1200	512×222×194/221	B0	3	43,3	21/28	H, HD, EMS
1003040	70027	TR20C	200	409	C	1200	518×273×214/241	B0	3	52,7	18/24	H, HD, EMS
1003041	72527	TR22	225	469	C	1300	518×273×214/241	B0	3	56,1	18/24	H, HD, EMS
1000013	6TN	TR11D7	110	203	D7	740	282×269×208/230	B0	2	30,8	24/36	H, HD



TAB TRUCK

## TAB MAGIC TRUCK

Flooded starter batteries, Ca/Ca technology | TRUCK batteries

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000493	63544 SMF	TM13M	135	258	MAC110	850	509×175×196/218	B3	3	33,3	24/40	SMF, ME, H, HD
1001224	64030 SMF	TM14	140	269	A	850	507×188×200/222	B0	3	35,6	24/35	SMF, ME, H, HD
1000497	65048 SMF	TM15M	150	292	MAC110	1000	509×175×196/218	B3	3	36,9	24/40	SMF, ME, H, HD
1001756	65018 SMF	TM15	150	292	B	950	513×222×194/216	B0	3	39,6	21/35	SMF, ME, H, HD, EMS
1001474	68032 SMF	TM18	180	361	B	1100	513×222×194/216	B0	3	43,1	21/28	SMF, ME, H, HD, EMS
1000249	70027 SMF	TM20	200	409	C	1200	517×275×214/236	B0	3	52,7	18/24	SMF, ME, H, HD, EMS
1000391	72527 SMF	TM22	225	469	C	1300	517×275×214/236	B0	3	56,1	18/24	SMF, ME, H, HD, EMS

**TAB MAGIC** utilises the latest innovations in Ca/Ca manufacturing technology, providing for the highest cold start performance and superior reliable power as demanded by the latest generation of cars with high energy drain. The SMF lid/cover provides complete roll over spill protection and is entirely maintenance free throughout the batteries life.

- + Sealed cover construction
- + Higher number of plates ensure 30% better starting capabilities
- + The expanded metal technology results in better corrosion resistance and providing a longer life time
- + The level indicator (magic eye) provides an instant status check
- + Explosion protection prevents flame brake-in into the battery
- + Ideal for cars with lots of electrical equipment
- + Battery of highest quality



## TAB MAGIC

Flooded starter batteries, Ca/Ca technology | CAR batteries

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000694	55401 SMF	M54	54	88	L1B	510	207×175×175	B13	0	12,3	72/120	SMF, ME, H
1000695	55510 SMF	M55H	55	90	L1	560	207×175×190	B13	0	12,8	72/100	SMF, ME, H
1000696	56249 SMF	M62	62	104	L2B	600	242×175×175	B13	0	13,9	63/108	SMF, ME, H
1000697	56649 SMF	M66H	66	112	L2	640	242×175×190	B13	0	15,0	63/90	SMF, ME, H
1000698	57510 SMF	M75	75	130	L3B	720	278×175×175	B13	0	16,5	51/96	SMF, ME, H, HD
1000700	57549 SMF	M75H	78	136	L3	750	278×175×190	B13	0	17,5	51/80	SMF, ME, H, HD
1000701	58514 SMF	M85	85	150	L4B	800	315×175×175	B13	0	18,9	42/72	SMF, ME, H, HD
1000703	60044 SMF	M100H	100	182	L5	900	353×175×190	B13	0	22,5	36/60	SMF, ME, H, HD
1000862	61002 SMF	M110H	110	203	L6	1000	394×175×190	B13	0	24,7	36/60	SMF, ME, H, HD

## ENERGY IN MOTION



**TAB EFB Stop & Go** batteries are so called Enhanced Flooded Batteries intended for use in vehicles with entry level Start-Stop function. EFB batteries utilize the latest innovations in Ca/Ca flooded battery manufacturing technology, providing for the superior reliable power as demanded by the latest generation of cars with entry level Start-Stop system.

- + MFW fleece on positive plates, preventing active material shedding boast twice as much cyclic capability as standard batteries and can be more discharged without any loss of functionality
- + Improved charge acceptance for recovering energy more quickly during driving phase using special expander with carbon
- + The expanded metal technology results in better corrosion resistance providing a longer life time
- + Sealed cover construction, roll over proof
- + Maintenance free
- + The level indicator (magic eye) provides an instant status check
- + Explosion protection with flame arrestor

## TAB EFB Stop & Go

EFB starter batteries, **Ca/Ca** technology | CAR and TRUCK batteries

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	LxWxH (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000787	56088 EFB	SG60	60	100	L2	640	242x175x190	B13	0	16,6	63/90	SMF, ME, H
1000788	56588 EFB	SG65	65	110	L3B	650	278x175x175	B13	0	16,7	51/96	SMF, ME, H, HD
1000789	57088 EFB	SG70	70	120	L3	760	278x175x190	B13	0	19,2	51/80	SMF, ME, H, HD
1000790	58014 EFB	SG75	75	130	L4B	730	315x175x175	B13	0	18,2	42/72	SMF, ME, H, HD
1000791	58088 EFB	SG80	80	140	L4	800	315x175x190	B13	0	21,9	42/60	SMF, ME, H, HD
1000792	59088 EFB	SG90	90	161	L5	850	353x175x190	B13	0	24,6	36/60	SMF, ME, H, HD
1001918	69032 EFB	SG19	190	385	B	1100	513x222x194/216	B0	3	45,3	21/28	SMF, ME, H, HD, EMS
1001778	74027 EFB	SG24	240	506	C	1250	517x275x214/236	B0	3	58,6	18/24	SMF, ME, H, HD, EMS
1000798	56568 EFB	SG65J	65	110	D23	600	230x173x200/220	B01	0	17,1	60/90	SMF, ME, H
1000797	56569 EFB	SG65JX	65	110	D23	600	230x173x200/220	B01	1	17,1	60/90	SMF, ME, H
1000794	57029 EFB	SG70J	70	120	D26	680	259x175x200/221	B1	0	19,6	48/80	SMF, ME, H
1000795	57024 EFB	SG70JX	70	120	D26	680	259x175x200/221	B1	1	19,6	48/80	SMF, ME, H
1000786	60518 EFB	SG10J	105	192	D31	900	306x173x200/221	B01	0	23,3	42/70	SMF, ME, H
1000793	60519 EFB	SG10JX	105	192	D31	900	306x173x200/221	B01	1	23,3	42/70	SMF, ME, H

Our contribution to low CO<sub>2</sub> emissions



**TAB AGM Stop & Go** batteries are Valve Regulated Lead Acid batteries intended for use in vehicles with enhanced level Start-Stop function with break energy recuperation. VRLA AGM battery is improved lead acid battery to its maximum performance. The battery cells are closed by a pressure relief valve and electrolyte is immobilized in absorbed glass mat (AGM).

Plate stacks are kept in the cells under pressure.

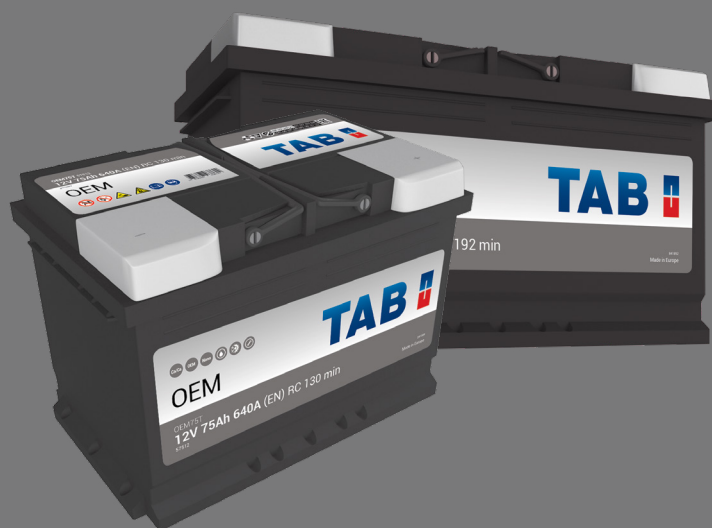
THE ADVANCED CONSTRUCTION OF BATTERY LEADS TO IMPROVED PERFORMANCE IN:

- + Very low water consumption due to internal oxygen recombination
- + Preventing active material shedding boast more than three times as much cyclic capability as standard batteries and can be more discharged without any loss of functionality
- + Increased cranking power due to better utilization of cell volume by more than 30 %
- + High rate charge acceptance for recovering energy more quickly during driving phase
- + Both side pasting of plates provides better corrosion resistance providing a longer life time
- + No acid stratification like in flooded cells
- + Explosive safe - minimum explosive gasses are produced
- + Vibration resistance and no acid leakage in case of crash

## TAB AGM Stop & Go

AGM starter batteries, **Ca/Ca** technology | CAR batteries

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	LxWxH (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000799	L2 AGM	AG60	60	109	L2	680	242x175x190	B13	0	17,9	63/90	AGM, H
1000800	L3 AGM	AG70	70	130	L3	760	278x175x190	B13	0	20,5	51/80	AGM, H
1000801	L4 AGM	AG80	80	151	L4	800	315x175x190	B13	0	23,2	42/60	AGM, H
1000802	L5 AGM	AG95	95	184	L5	850	353x175x190	B13	0	26,0	36/60	AGM, H
1000803	L6 AGM	AG105	105	206	L6	950	394x175x190	B13	0	29,2	36/60	AGM, H
1000805	57029 AGM	AG75	75	140	D26	750	263x173x200/221	B1	0	20,4	48/80	AGM, H
1000806	57024 AGM	AG75X	75	140	D26	750	263x173x200/221	B1	1	20,4	48/80	AGM, H



# TAB OEM BATTERIES

Flooded starter batteries, Ca/Ca technology | CAR batteries

TAB ID	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1001228	55512 SMF	OEM55V	55	90	L1	560	207×175×190	B13	0	15,0	72/100	SMF, ME, H, VW
1001229	57012	OEM70A	70	120	L3	640	278×175×190	B13	0	17,6	51/80	KH, HD, AGCO
1001230	57512	OEM75T	75	130	L3	640	278×175×190	B13	0	17,6	51/80	KH, HD, THERMO KING
1001231	59249	OEM92T	92	165	L4	760	315×175×190	B13	0	21,0	42/60	KH, HD, THERMO KING
1001227	61038	OEM105A	105	192	L5	880	353×175×190	B13	0	23,4	36/60	KH, HD, AGCO

