

VOLTHOR STARTER BATTERIES



VolThor

VOLTHOR ULTRA
VOLTHOR SUPREME
VOLTHOR ULTRA TRUCK
VOLTHOR SUPREME TRUCK
VOLTHOR EFB Stop & Go
VOLTHOR AGM Stop & Go

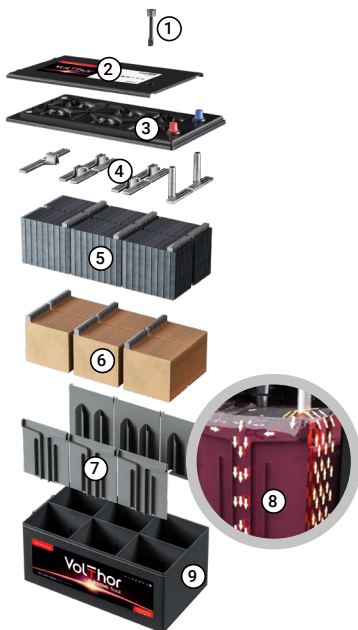
Brand Volthor is produced in TAB d.d. company. TAB was established in 1965 as a subsidiary of Lead Mine Mežica Holding in a region where different lead activities are more than 350 years old. Nowadays, TAB is producing a wide range of lead acid flooded, VRLA AGM and VRLA Gel batteries.

WE HAVE EXPERIENCE AND WE HAVE KNOWLEDGE – THEREFORE OUR HIGH QUALITY BATTERIES ARE KNOWN WORLDWIDE.
WE ARE PROUD OF OUR DURABLE ENERGY – NOW ALREADY MORE THAN 55 YEARS.

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

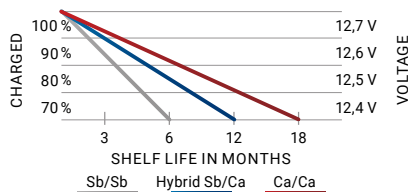
ENERGY IN MOTION

EMS TRUCK BATTERIES

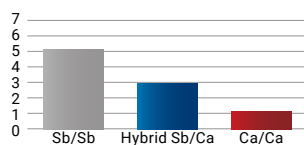


- 1 Electrolyte level indicator – Magic Eye
- 2 Top SMF lid with central degassing and flame arrestors (Battery manufactured by using Sb/Ca technology is fitted with a Flat lid with M27 plugs, for easy access)
- 3 Main SMF lid with labyrinth for additional safety and very low water loss
- 4 Robust plate connectors with large surface inter cell welds, increasing cranking power
- 5 Negative plate with additives for increased charging abilities.
Permanent sulfation is severely restricted
- 6 Positive plates with thick casted grids.
High-density active mass increases cycle life plus enhanced resistance to deep discharge
- 7 Integrated flexible ribs which generate adequate pressure to the plate stack in all states of charge
- 8 New cell design promotes acid motion in vertical direction, eliminating stratification
- 9 Impact resistant polypropylene container

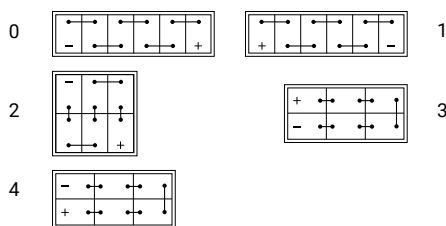
Allowable shelf life (SELFDISCHARGE)



Water consumption (g/Ah)



Layout

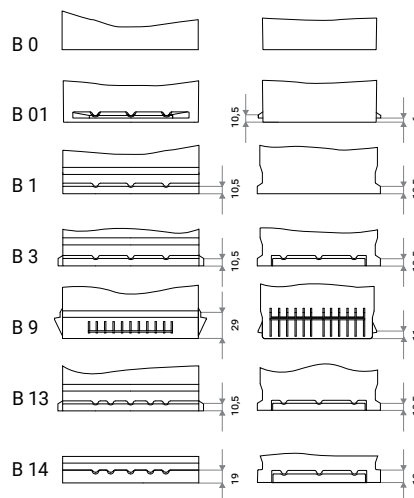


Glossary of remarks

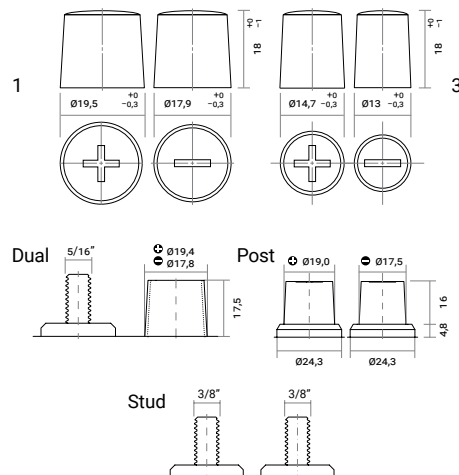
- K** Kamina
- H** Handle
- KH** Kamina Handle
- ME** Magic Eye
- HD** Heavy Duty
- JIS** Japanese Poles
- S** Stud Poles
- SMF** Maintenance Free = Sealed
- DP** Dual Poles
- A** Pole Adapter
- AGM** Absorbed Glass Mat
- EMS** Electrolyte Mixing System
- P** Post Poles

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

Base hold down



Terminals



VOLTHOR ULTRA 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. Volthor Ultra 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



VOLTHOR ULTRA

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

ID Nr.	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	LxWxH (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1001238	54506	VU45	45	71	L0	400	175x175x190	B13	0	10,5	72/120	K
1001264	54002 SMF	VU40	40	62	L1B	360	207x175x175	B13	0	10,7	72/120	SMF, H
1001273	54003 SMF	VU40X	40	62	L1B	360	207x175x175	B13	1	10,7	72/120	SMF, H
1001265	54502 SMF	VU45B	45	71	L1B	420	207x175x175	B13	0	11,2	72/120	SMF, H
1001239	54559 SMF	VU45H	45	71	L1	400	207x175x190	B13	0	11,7	72/100	SMF, H
1001240	55010 SMF	VU50H	50	81	L1	450	207x175x190	B13	0	12,2	72/100	SMF, H
1001277	55001 SMF	VU50	50	81	L2B	450	242x175x175	B13	0	12,7	63/108	SMF, H
1001267	55509 SMF	VU55	55	90	L2B	500	242x175x175	B13	0	13,3	63/108	SMF, H
1001278	55559 SMF	VU55H	55	90	L2	500	242x175x190	B13	0	13,9	63/90	SMF, H
1001288	56008 SMF	VU60H	60	100	L2	600	242x175x190	B13	0	14,4	63/90	SMF, H
1001257	56013 SMF	VU60HX	60	100	L2	600	242x175x190	B13	1	14,4	63/90	SMF, H
1001244	56309 SMF	VU63	63	106	L3B	600	278x175x175	B13	0	15,5	51/80	SMF, H, HD
1001246	57309 SMF	VU73	73	126	L3B	630	278x175x175	B13	0	15,9	51/80	SMF, H, HD
1001268	56638 SMF	VU66H	66	112	L3	600	278x175x190	B13	0	16,1	51/80	SMF, H, HD
1001270	57412 SMF	VU74H	74	128	L3	680	278x175x190	B13	0	17,2	51/80	SMF, H, HD
1001259	57413 SMF	VU74HX	74	128	L3	680	278x175x190	B13	1	17,2	51/80	SMF, H, HD
1001248	59249 SMF	VU92H	92	165	L4	800	315x175x190	B13	0	20,0	42/60	SMF, H, HD
1001281	59220 SMF	VU92	92	165	L5B	800	353x175x175	B13	0	20,5	36/72	SMF, H, HD
1001272	58827 SMF	VU88H	88	156	L5	720	353x175x190	B13	0	21,0	36/60	SMF, H, HD
1001275	60038 SMF	VU10H	100	182	L5	850	353x175x190	B13	0	22,5	36/60	SMF, ME, H, HD
1001237	53520 SMF	VU35J	35	53	B19	270	196x128x202/223	B0	0	9,4	96/128	SMF, H, JIS
1001252	53522 SMF	VU35JX	35	53	B19	270	196x128x202/223	B0	1	9,4	96/128	SMF, H, JIS
1001291	53521 SMF	VU35JP	35	53	B19	270	196x134x202/223	B01	0	9,4	96/128	SMF, H, JIS
1001286	54520 SMF	VU45J	45	71	B19	360	196x134x202/223	B01	0	10,6	96/128	SMF, H, JIS, A
1001253	54522 SMF	VU45JX	45	71	B19	360	196x134x202/223	B01	1	10,6	96/128	SMF, H, JIS, A
1001266	54523/84 SMF	VU45JA	45	71	B24	360	236x128x202/223	B0	0	11,9	72/96	SMF, H, JIS, A
1001254	54524/51 SMF	VU45JAX	45	71	B24	360	236x128x202/223	B0	1	11,9	72/96	SMF, H, JIS, A
1001242	55523/84 SMF	VU55JA	55	90	B24	490	236x128x202/223	B0	0	13,5	72/96	SMF, H, JIS, A
1001255	55524/51 SMF	VU55JAX	55	90	B24	490	236x128x202/223	B0	1	13,5	72/96	SMF, H, JIS, A
1001294	56068 SMF	VU60J	60	100	D23	600	230x173x200/220	B01	0	14,9	60/90	SMF, ME, H
1001282	56069 SMF	VU60JX	60	100	D23	600	230x173x200/220	B01	1	14,9	60/90	SMF, ME, H
1001245	56568 SMF	VU65J	65	110	D23	650	230x173x200/220	B01	0	15,5	60/90	SMF, ME, H
1001258	56569 SMF	VU65JX	65	110	D23	650	230x173x200/220	B01	1	15,5	60/90	SMF, ME, H
1001269	57029 SMF	VU70J	70	120	D26	700	259x175x200/221	B1	0	17,3	48/80	SMF, ME, H
1001274	57024 SMF	VU70JX	70	120	D26	700	259x175x200/221	B1	1	17,3	48/80	SMF, ME, H
1001271	57529 SMF	VU75J	75	130	D26	740	259x175x200/221	B1	0	17,8	48/80	SMF, ME, H
1001260	57524 SMF	VU75JX	75	130	D26	740	259x175x200/221	B1	1	17,8	48/80	SMF, ME, H
1001249	59518 SMF	VU95J	95	171	D31	850	306x173x200/221	B01	0	20,9	42/70	SMF, ME, H
1001261	59519 SMF	VU95JX	95	171	D31	850	306x173x200/221	B01	1	20,9	42/70	SMF, ME, H
1001290	BCI 31P SMF	VU90BCIP	90	161	BCI 31	800	330x173x218/239	B1	0	23,4	42/60	SMF, ME, H, HD, P
1001283	BCI 31S SMF	VU100BCIS	100	182	BCI 31	900	330x173x218/239	B1	0	24,3	42/60	SMF, ME, H, HD, S
1001293	BCI 31S SMF-D	VU110BCID	110	203	BCI 31	1000	330x173x218/237	B1	0	26,2	42/60	SMF, ME, H, HD, DP

VOLTHOR ULTRA TRUCK

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

ID Nr.	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
1001263	61028	VUT11	110	203	60528	800	345×172×218/238	B0	0	26,5	36/48	H
1001276	61028	VUT11P	110	203	60528	800	345×175×218/238	B1	0	26,5	36/48	H
1003058	61044	VUT11M	110	203	MAC110	720	509×175×182/208	B3	3	31,1	24/40	H, HD
1001236	62512	VUT12H	125	235	62512	800	345×172×269/289	B0	0	33,0	24/36	H
1003059	63530	VUT13A	135	258	A	850	513×189×194/220	B0	3	35,6	24/35	H, HD
1003060	63544	VUT13M	135	258	MAC110	850	509×175×182/208	B3	3	33,3	24/40	H, HD
1003061	63545	VUT13MR	135	258	MAC110	850	509×175×182/208	B3	4	33,3	24/40	H, HD
1003062	65048	VUT15M	150	292	MAC110	1000	509×175×182/208	B3	3	36,9	24/32	H, HD
1000503	67018	VUT17	170	338	B	1050	512×222×194/221	B0	3	42,7	21/28	H, HD, EMS
1000505	67019	VUT17R	170	338	B	1050	512×222×194/221	B3	4	42,7	21/28	H, HD, EMS
1000508	68032	VUT18	180	361	B	1100	512×222×194/221	B0	3	43,3	21/28	H, HD, EMS
1000509	69032	VUT19	190	385	B	1200	512×222×194/221	B0	3	43,3	21/28	H, HD, EMS
1003063	70027	VUT20C	200	409	C	1200	518×273×214/241	B0	3	52,7	18/24	H, HD, EMS
1003064	72527	VUT22	225	469	C	1300	518×273×214/241	B0	3	56,1	18/24	H, HD, EMS
1000222	6TN	VUT11D7	100	182	D7	740	282×269×208/230	B0	2	30,8	24/36	H, HD



VOLTHOR TRUCK

VOLTHOR SUPREME TRUCK

Flooded starter batteries, **Ca/Ca** technology | TRUCK batteries

ID Nr.	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
1001373	63544 SMF	VST13M	135	258	MAC110	850	509×175×196/218	B3	3	33,3	24/40	SMF, ME, H, HD
1001374	64030 SMF	VST14	140	269	A	850	507×188×200/222	B0	3	35,6	24/35	SMF, ME, H, HD
1001375	65048 SMF	VST15M	150	292	MAC110	1000	509×175×196/218	B3	3	36,9	24/40	SMF, ME, H, HD
1001759	65018 SMF	VST15	150	292	B	950	513×222×194/216	B0	3	39,6	21/35	SMF, ME, H, HD, EMS
1001760	68032 SMF	VST18	180	338	B	1100	513×222×194/216	B0	3	43,1	21/28	SMF, ME, H, HD, EMS
1001387	70027 SMF	VST20	200	409	C	1200	517×275×214/236	B0	3	52,7	18/24	SMF, ME, H, HD, EMS
1001395	72527 SMF	VST22	225	469	C	1300	517×275×214/236	B0	3	56,1	18/24	SMF, ME, H, HD, EMS

VOLTHOR SUPREME 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



VOLTHOR SUPREME

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

ID Nr.	DIN marking	Short code	C20 (Ah)	RC (min)	Box type	EN (A)	LxWxH (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1001241	55401 SMF	VS54	54	88	L1B	510	207x175x175	B13	0	12,3	72/120	SMF, ME, H
1001287	55510 SMF	VS55H	55	90	L1	560	207x175x190	B13	0	12,8	72/100	SMF, ME, H
1001243	56249 SMF	VS62	62	104	L2B	600	242x175x175	B13	0	13,9	63/108	SMF, ME, H
1001279	56649 SMF	VS66H	66	112	L2	640	242x175x190	B13	0	15,0	63/90	SMF, ME, H
1001280	57510 SMF	VS75	75	130	L3B	720	278x175x175	B13	0	16,5	51/80	SMF, ME, H, HD
1001289	57549 SMF	VS75H	78	130	L3	750	278x175x190	B13	0	17,5	51/80	SMF, ME, H, HD
1001247	58514 SMF	VS85	85	150	L4B	800	315x175x175	B13	0	18,9	42/72	SMF, ME, H, HD
1001262	60044 SMF	VS100H	100	182	L5	900	353x175x190	B13	0	22,5	36/60	SMF, ME, H, HD
1001235	61002 SMF	VS110H	110	203	L6	1000	394x175x190	B13	0	24,7	36/60	SMF, ME, H, HD

ENERGY IN MOTION



OUR CONTRIBUTION T

VOLTHOR 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



VOLTHOR EFB Stop & Go

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

ID Nr.	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
1002050	56568 EFB	VEF65J	65	110	D23	600	230×173×200/220	B01	0	17,1	60/90	SMF, ME, H
1002049	56569 EFB	VEF65JX	65	110	D23	600	230×173×200/220	B01	1	17,1	60/90	SMF, ME, H
1002042	56088 EFB	VEF60	60	100	L2	640	242×175×190	B13	0	16,6	63/90	SMF, ME, H
1002043	56588 EFB	VEF65	65	110	L3B	650	278×175×175	B13	0	16,7	51/80	SMF, ME, H, HD
1002044	57088 EFB	VEF70	70	120	L3	760	278×175×190	B13	0	19,2	51/80	SMF, ME, H, HD
1002051	57029 EFB	VEF70J	70	120	D26	680	259×175×200/221	B1	0	19,6	48/80	SMF, ME, H
1002052	57024 EFB	VEF70JX	70	120	D26	680	259×175×200/221	B1	1	19,6	48/80	SMF, ME, H
1002045	58014 EFB	VEF75	75	130	L4B	730	315×175×175	B13	0	18,2	42/72	SMF, ME, H, HD
1002046	58088 EFB	VEF80	80	140	L4	800	315×175×190	B13	0	21,9	42/60	SMF, ME, H, HD
1002047	59088 EFB	VEF90	90	161	L5	850	353×175×190	B13	0	24,6	36/60	SMF, ME, H, HD
1002041	60518 EFB	VEF10J	105	192	D31	900	306×173×200/221	B01	0	23,3	42/70	SMF, ME, H
1002048	60519 EFB	VEF10JX	105	192	D31	900	306×173×200/221	B01	1	23,3	42/70	SMF, ME, H
1001921	69032 EFB	VEF19	190	385	B	1100	513×222×194/216	B0	3	45,3	21/28	SMF, ME, H, HD, EMS
1001775	74027 EFB	VEF24	240	506	C	1250	517×275×214/236	B0	3	58,6	18/24	SMF, ME, H, HD, EMS

0 LOW CO₂ EMISSIONS

VOLTHOR 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



VOLTHOR AGM Stop & Go

AGM starter batteries, Ca/Ca technology | CAR batteries

ID Nr.	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
1002835	L2 AGM	VGM60	60	109	L2	680	242×175×190	B13	0	17,9	63/90	AGM, H
1002836	L3 AGM	VGM70	70	130	L3	760	278×175×190	B13	0	20,5	51/80	AGM, H
1002837	L4 AGM	VGM80	80	151	L4	800	315×175×190	B13	0	23,2	42/60	AGM, H
1002838	L5 AGM	VGM95	95	184	L5	850	353×175×190	B13	0	26,0	36/60	AGM, H
1002839	L6 AGM	VGM105	105	206	L6	950	394×175×190	B13	0	29,2	36/60	AGM, H
1002840	57029 AGM	VGM75	75	140	D26	750	263×173×200/221	B1	0	20,4	48/80	AGM, H
1002841	57024 AGM	VGM75X	75	140	D26	750	263×173×200/221	B1	1	20,4	48/80	AGM, H

L0
175×175×190
B13



L1B SMF
207×175×175
B13



L1 SMF
207×175×190
B13



L2B SMF
242×175×175
B13



L2 SMF
242×175×190
B13



L3B SMF
278×175×175
B13



L3 SMF
278×175×190
B13



L4B SMF
315×175×175
B13



L4 SMF
315×175×190
B13



L5B SMF
353×175×175
B13



L5 SMF
353×175×190
B13



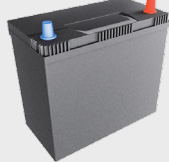
L6 SMF
394×175×190
B13



B19 SMF
196×134×202/223
B01



B24 SMF
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B0



D23 SMF
230×173×200/220
B01



D26 SMF
259×175×200/221
B1



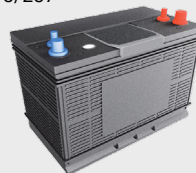
D31 SMF
306×173×200/221
B01



BCI 31 SMF
330×173×218/239
B1



BCI 31 DUAL SMF
330×173×218/237
B1



60528
345×172×218/238
B0



62512
345×172×269/289
B0



MAC110
509×175×182/208
B3



MAC110 SMF
509×175×196/218
B3



MAC143
509×216×184/210
B3



A
513×189×194/220
B0



A SMF
507×188×200/222
B0



B
512×222×194/221
B0



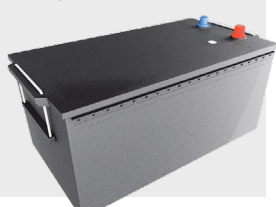
B SMF
513×222×194/216
B0



C
518×273×217/241
B0



C SMF
517×275×214/236
B0



D7
282×269×208/230
B0



Mower
196×127×159/185
B0

