

VESNA+



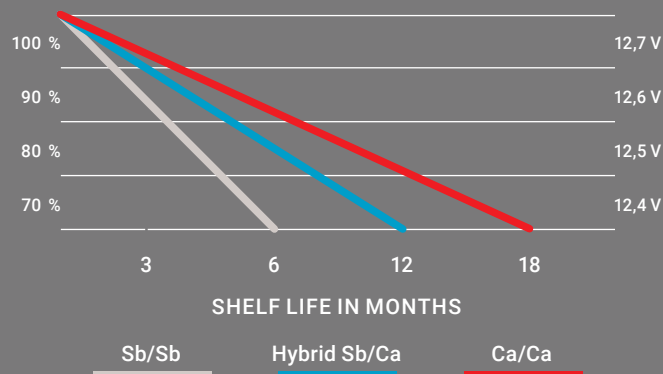
STARTER BATTERIES

VESNA batteries

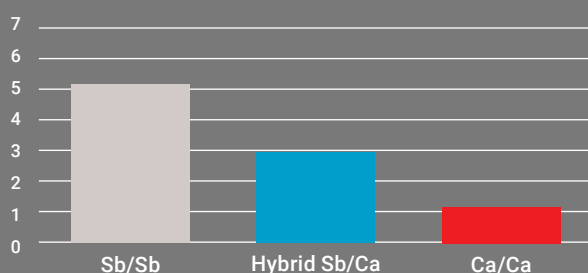
Thanks to our technology, batteries for cars and trucks express power and last a long time, thereby exceeding all expectations. Made for every type of vehicle, even the most innovative ones equipped with Start/Stop systems, they ensure the highest quality and the highest level of engineering for reliability that knows no boundaries.

ADVANCED CHOICE

Allowable shelf life (SELF-DISCHARGE)



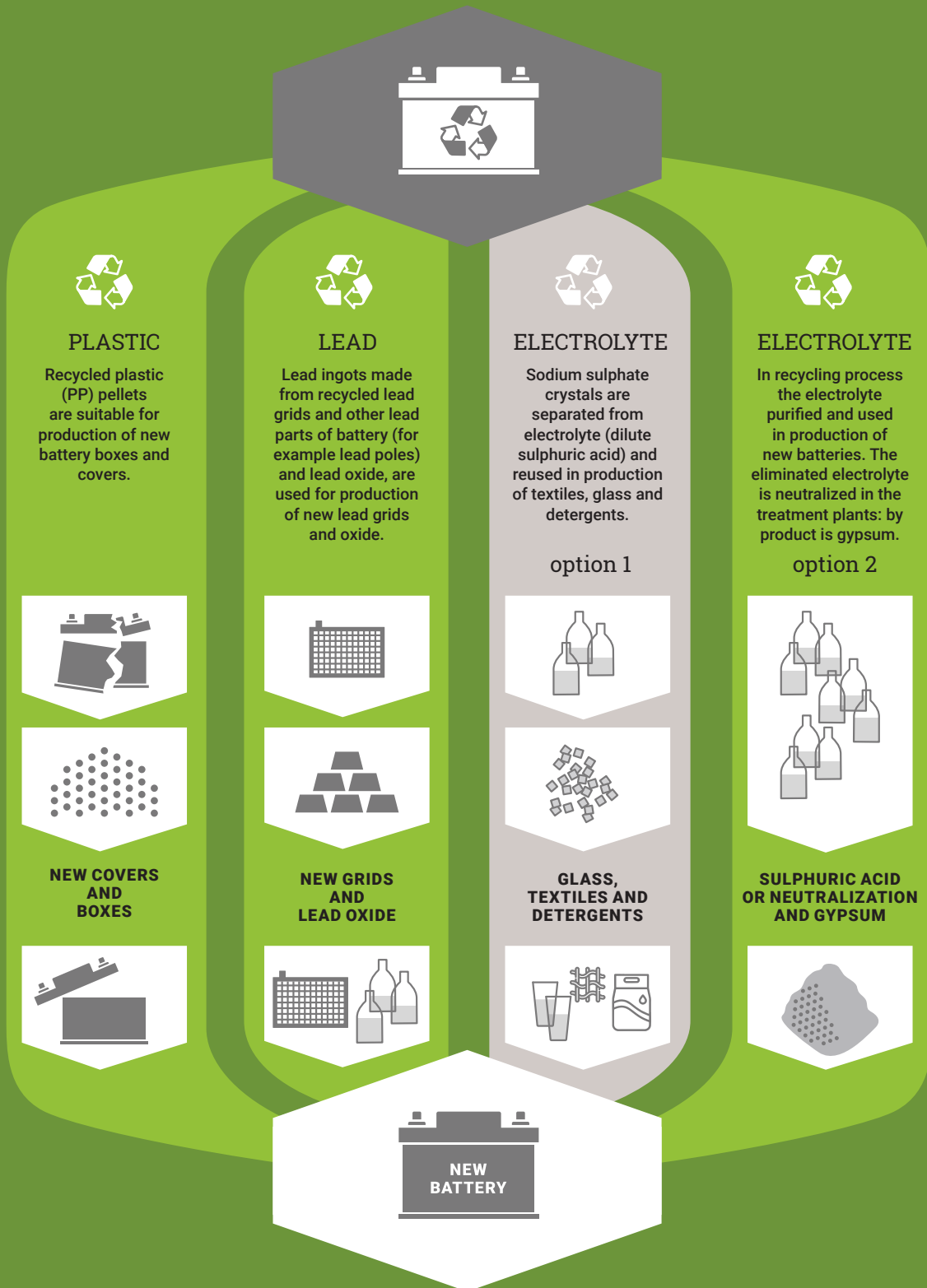
Water consumption (g/Ah)





POWERING EVERY START.





EcoMotion

The EcoMotion system enables the recovery and reuse of lead, polypropylene, and sulphuric acid from used lead-acid batteries, ensuring sustainable resource management.

The production of lead-acid batteries starts with the supply of materials, with lead being the primary raw material. All used lead is sourced exclusively from secondary materials, including recycled waste lead batteries and other lead-based waste. Additionally, a portion of the technological waste is reintegrated into the production process, ensuring a sustainable and efficient use of resources.

Our commitment to a green future.



99% of the lead-acid batteries can be recycled



Lead can be recycled endlessly

COMMITMENT TO SUSTAINABILITY, SAFETY, AND ENVIRONMENTAL PROTECTION

For decades, TAB has remained dedicated to ensuring optimum safety, sustainability, and health while prioritizing environmental protection. The Company follows strict guidelines that are continuously updated to reflect the latest advancements, providing comprehensive protection for employees, neighbours, customers, consumers, and the environment.

TAB prioritizes sustainable development and recognizes its long-term responsibility to promote environmentally friendly practices. This commitment is rooted in a systematic approach to monitoring and minimizing environmental impact. TAB adheres to the ISO 14001 Standard, incorporates Best Available Techniques (BAT) guide-lined into its environmental policy, and actively participates in various established environmental programs.

EcoMotion

TAB is committed to more than just manufacturing high-quality lead-acid batteries. Through its EcoMotion system, TAB ensures the environmentally responsible collection and recycling of used batteries.

EcoMotion embodies a closed-loop LiveCycle, encompassing every stage from battery production to recycling. TAB produces new batteries and, via its authorized sales and distribution network, collects used batteries for professional recycling at its subsidiary, MPI-Reciklaža.

This comprehensive approach reflects TAB's dedication to sustainability and environmental responsibility.

With 60+ years of expertise, TAB stands as one of global leaders in the production of lead-acid batteries, trusted by both automotive and industrial sectors. Worldwide known for our durable, high-performance, and innovative products, TAB provides battery solutions for automotive, commercial and industrial vehicles as well as for advanced energy storage systems.

OUR SOLUTIONS POWER THE VEHICLES OF WORLD-LEADING BRANDS AND SUPPORT SYSTEMS THAT DEMAND CONTINUOUS, RELIABLE ENERGY.

From manufacturing and sales to dedicated servicing, TAB is your comprehensive partner in energy solutions.

Our Innovative Pole Cover Design.

Discover the Benefits of Our Pole Cover Design:

Enhanced Practicality and Usability:

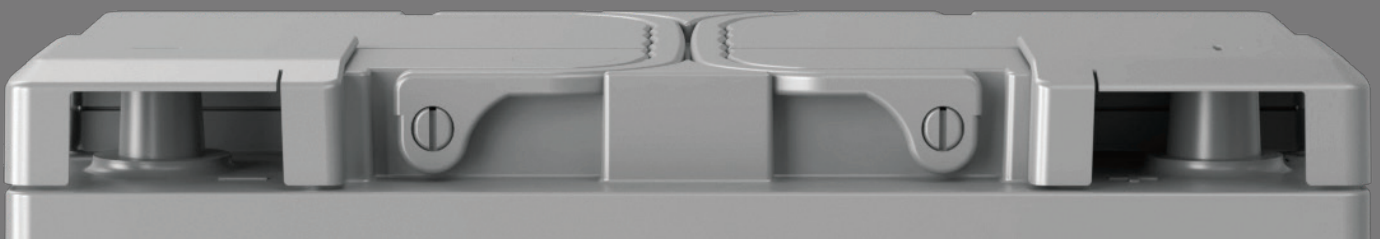
Our designed covers provide easy access to battery terminals on both sides, allowing cable connections without the need to remove the cover. This means quicker installations and maintenance, keeping you on the road longer.

Superior Safety:

Engineered for peace of mind, our pole covers remain securely in place even after the battery is connected, significantly reducing the risk of short circuits and enhancing overall vehicle safety.

Eco-Friendly Innovation:

The covers are designed to stay with the battery throughout its entire life cycle, contributing to a cleaner, more sustainable environment. Not only do they enhance the battery's aesthetic appeal, but they are also fully recyclable, aligning perfectly with our eco-friendly initiatives. From production to recycling, every element of our battery design is crafted with nature in mind.



	Start/Stop Battery		Conventional Battery	
VESNA Range	VESNA AGM Stop&Go	VESNA EFB Stop&Go	VESNA Premium	VESNA Power
				
Technology	AGM	EFB	Flooded	Flooded
Application	Recent vehicles and upmarket models with superior power needs, Start/Stop systems and regenerative braking	Recent vehicles and upmarket models with superior power needs, entry-level Start/Stop system	Recent vehicles and upmarket models with high energy demands	Vehicles with standard electrical equipment
Start/Stop	Start/Stop System	Start/Stop System	Conventional Battery	Conventional Battery
Maintenance	Maintenance Free	Maintenance Free	Maintenance Free	Maintenance Free
Cold Cramping Amps (CCA)				
Charge Acceptance				
Cycle life	3X	2X		
Cycle life compared to conventional batteries when used on Start/Stop vehicles				
Consumers				
Replacement	AGM	EFB or AGM	Equivalent or better	Equivalent or better

Unstoppable power.
Unmatched trust.





VESNA AGM Stop&Go Batteries

GREEN POWER
FOR EVERY START

Designed for vehicles equipped with the latest generation Start/Stop systems, the VESNA AGM Stop&GO battery uses VRLA technology with Absorbed Glass Mat (AGM).

The battery cells are sealed with a pressure relief valve, and the electrolyte is immobilized within an Absorbed Glass Mat (AGM), ensuring maximum safety, efficiency and reliability. The plate stacks are maintained under pressure within the cells, enhancing the battery’s overall performance and durability.

VESNA AGM Stop&GO deliver maximum efficiency in regenerative braking, high resistance to deep cycling, and is completely maintenance-free - the ideal choice for those seeking reliable performance in all conditions.



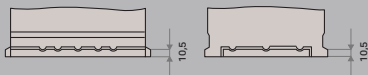
MAIN FEATURES

- **Low Water Consumption:** Internal oxygen recombination reduces water loss, ensuring longevity and reliability.
- **Three Times Longer Cycle Life:** Compared to conventional batteries, Vesna AGM batteries offer up to three times the cycle life, providing long-lasting performance.
- **Improved Cyclic Capability:** Preventing active material shedding provides three times the energy throughput without loss of functionality.
- **Increased Cranking Power:** Better utilization of cell volume increases cranking power by over 30%.
- **Rapid Energy Recovery:** High charge acceptance allows for faster energy recovery during the driving phase, improving overall efficiency.
- **Superior Corrosion Resistance:** Special alloy preparation processes and composition improve corrosion resistance.
- **Maintenance Free:** Designed for hassle-free use with no maintenance required throughout the battery's life.

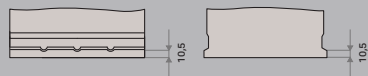


BHD

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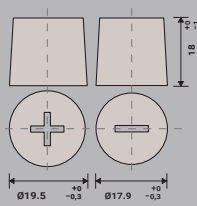


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TERMINALS

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LAYOUT

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APPLICATION



Absorbed Glass Mat Starter Batteries, **Ca/Ca** Technology

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1032789	L1 AGM	VAG50	50	570	88	L1	207×175×190	B13	0	15.5	72/100	AGM, H, EV
1001390	L2 AGM	VAG60	60	680	109	L2	242×175×190	B13	0	17.6	63/90	AGM, H, EV
1001391	L3 AGM	VAG70	70	760	130	L3	278×175×190	B13	0	20.3	51/80	AGM, H
1001392	L4 AGM	VAG80	80	800	151	L4	315×175×190	B13	0	23.0	42/60	AGM, H
1001393	L5 AGM	VAG95	95	850	184	L5	353×175×190	B13	0	25.8	36/60	AGM, H
1001394	L6 AGM	VAG105	105	950	206	L6	394×175×190	B13	0	28.6	36/60	AGM, H
1027582	57029 AGM	VAG75	75	750	140	D26	261×173×198/220	B1	0	20.0	48/80	AGM, H
1027583	57024 AGM	VAG75X	75	750	140	D26	261×173×198/220	B1	1	20.0	48/80	AGM, H

BATTERY REPLACEMENT

- **No Acid Stratification:** AGM batteries do not suffer from electrolyte stratification, ensuring stable power and a longer lifespan even in severe operating conditions.
- **Explosion Safety:** Minimizes the production of explosive gases, enhancing safety.
- **Vibration Resistance:** Designed to withstand vibrations, providing reliable power in challenging conditions.
- **Crash Protection:** No acid leakage occurs in the event of a crash, ensuring safety and integrity.
- **Car Fitting:** Installation in a lateral position is possible, with a maximum angle of 90°.
- **E-Mobility:** Used as an on-board battery in electric vehicles (e-cars).

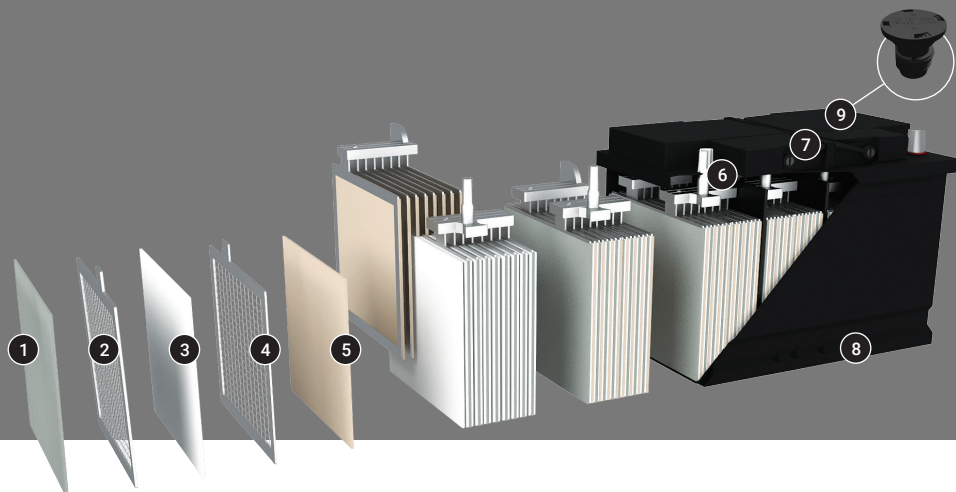


REMARKS

AGM Absorbed Glass Mat
H Handle

EV On-board Battery in Electrical Vehicle

- 1 NEGATIVE PASTE
- 2 NEGATIVE GRID
- 3 AGM SEPARATOR
- 4 POSITIVE GRID
- 5 POSITIVE PASTE
- 6 POLE
- 7 HANDLE
- 8 BHD
- 9 PLUG M18-VR



VESNA EFB Stop&Go Batteries

UNLIMITED ENERGY
PURE POWER

Designed for vehicles with entry-level Start/Stop systems, the VESNA EFB Stop&Go battery offers an excellent balance between cycle life and starting power. Built with cutting-edge EFB (Enhanced Flooded Battery) technology, it ensures long service life even under intensive urban driving conditions.

Engineered for optimal performance, VESNA EFB batteries provide the dependable power required for efficient energy management in entry-level Start/Stop vehicles, offering a cost-effective and high-performance solution for today’s automotive needs.

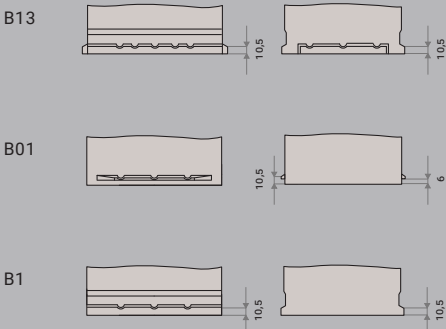


MAIN FEATURES

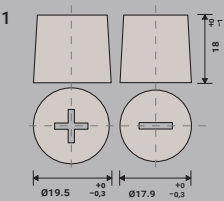
- **Twice the Cycle Life:** Offers double the cycle life compared to conventional batteries, ensuring longer-lasting performance.
- **MFV Fleece on Positive Plates:** Prevents active material shedding, significantly reducing the loss of functionality and extending battery life.
- **Improved Charge Acceptance:** Special carbon additives enhance charge acceptance, enabling faster energy recovery during the driving phase.
- **Enhanced Corrosion Resistance:** Advanced alloy technology ensures better resistance to corrosion, extending battery lifespan.
- **Leak Protection:** Sealed cover construction ensures double the leak protection and 100% spill-proof performance, even at an angle of up to 55°. SMF+ cover types are roll-over proof.



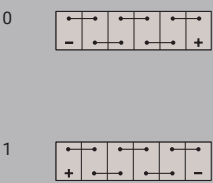
BHD



TERMINALS



LAYOUT



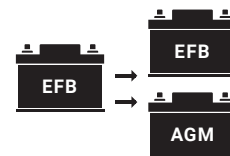
APPLICATION

Enhanced Flooded Starter Batteries, **Ca/Ca** Technology

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1030214	55011 EFB	VSG50	50	540	81	L1	207×175×190	B13	0	14,1	72/100	SMF+, ME, H, EV
1001377	56088 EFB	VSG60	60	640	100	L2	242×175×190	B13	0	16,6	63/90	SMF+, ME, H, EV
1001381	56588 EFB	VSG65	65	650	110	L3B	278×175×175	B13	0	16.5	51/80	SMF+, ME, H, HD
1001382	57088 EFB	VSG70	70	760	120	L3	278×175×190	B13	0	19.2	51/80	SMF+, ME, H, HD
1001383	58014 EFB	VSG75	75	730	130	L4B	315×175×175	B13	0	18.2	42/72	SMF, ME, H, HD
1001384	58088 EFB	VSG80	80	800	140	L4	315×175×190	B13	0	21.9	42/60	SMF, ME, H, HD
1001385	59088 EFB	VSG90	90	850	161	L5	353×175×190	B13	0	24.6	36/60	SMF, ME, H, HD
1030218	60502 EFB	VSG10	105	950	195	L6	394×175×190	B13	0	27.1	36/60	SMF, ME, H, HD
1001379	56568 EFB	VSG65J	65	600	110	D23	230×173×200/221	B01	0	17.1	60/90	SMF, ME, H
1001378	56569 EFB	VSG65JX	65	600	110	D23	230×173×200/221	B01	1	17.1	60/90	SMF, ME, H
1001388	57029 EFB	VSG70J	70	680	120	D26	259×175×200/221	B1	0	19.6	48/80	SMF, ME, H
1001389	57024 EFB	VSG70JX	70	680	120	D26	259×175×200/221	B1	1	19.6	48/80	SMF, ME, H
1001380	60518 EFB	VSG10J	105	900	192	D31	306×173×200/221	B01	0	23.9	42/70	SMF, ME, H
1001386	60519 EFB	VSG10JX	105	900	192	D31	306×173×200/221	B01	1	23.9	42/70	SMF, ME, H

BATTERY REPLACEMENT

- **Maintenance Free:** Designed for hassle-free use with no maintenance required throughout the battery's life.
- **Instant Status Check:** The built-in electrolyte level indicator (Magic Eye) allows for easy and immediate battery status monitoring.
- **Explosion Protection:** Built-in flame arrestor provides added safety by preventing flame intrusion.
- **E-Mobility:** Used as an on-board battery in electric vehicles (e-cars).



REMARKS

SMF+ Enhanced SMF
SMF Sealed Maintenance Free

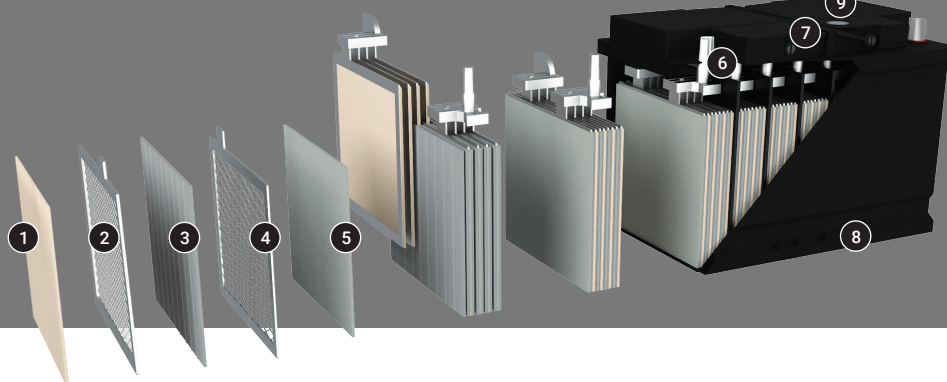
ME Electrolyte Level Indicator
H Handle

HD Heavy Duty
EV On-board Battery in Electrical Vehicle

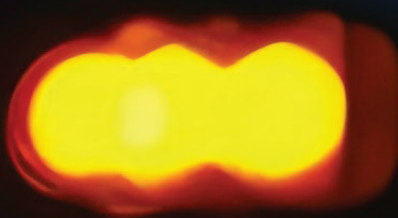
The Electrolyte Level Indicator, Magic Eye, provides an instant status check.



- 1 NEGATIVE PASTE
- 2 NEGATIVE GRID
- 3 POLYETHYLENE SEPARATOR
- 4 POSITIVE GRID
- 5 POSITIVE PASTE
- 6 POLE
- 7 HANDLE
- 8 BHD
- 9 MAGIC EYE



Limitless drive.
Total dependability.



-  Double Lid System
-  No Water Consumption
-  Low Water Consumption
-  Extreme Climactic Conditions
-  Reduced need for Maintenance
-  Maintenance Free
-  Spill-proof up to 55° angle
-  Roll-over Test (SMF++)
-  Magic Eye
-  +30% better Starting Capabilities
-  Nano Technology
-  On-board Battery in Electrical Vehicle



VESNA Premium Batteries

SUPERIOR ENERGY
UNLIMITED POWER

The ideal solution for modern vehicles with high energy demands. Thanks to Ca/Ca technology and a sealed double lid, VESNA Premium guarantees outstanding cold-cranking performance, high reliability, and zero maintenance.

The Magic Eye charge indicator allows quick and easy monitoring of battery status. Up to 30% more starting power than standard batteries ensures quick starts even in the toughest conditions - perfect for those who demand the best on every journey.

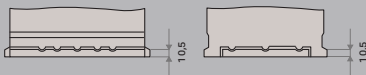


MAIN FEATURES

- **Perfect for High-Energy Vehicles:** Ideal for cars with extensive electrical equipment, providing reliable power.
- **Enhanced Starting Power:** A higher number of plates delivers 30% better starting capabilities.
- **Longer Lifespan:** Advanced expanded metal technology improves corrosion resistance, extending the battery's life.
- **Instant Status Check:** The built-in level indicator (Magic Eye) allows for easy and immediate battery status monitoring.
- **Enhanced Safety:** Explosion protection prevents flame brake-in into the battery.

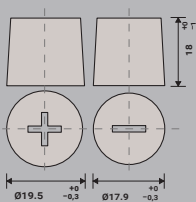
BHD

B13



TERMINALS

1



LAYOUT

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APPLICATION

Flooded Starter Batteries, **Ca/Ca** Technology

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1001576	55401 SMF	PR54	54	510	88	L1B	207×175×175	B13	0	12.1	72/120	SMF+, ME, H
1001597	55510 SMF	PR55H	55	560	90	L1	207×175×190	B13	0	12.7	72/100	SMF+, ME, H
1001556	56249 SMF	PR62	62	600	104	L2B	242×175×175	B13	0	13.7	63/108	SMF+, ME, H
1001581	56649 SMF	PR66H	66	640	112	L2	242×175×190	B13	0	14.8	63/90	SMF+, ME, H
1001562	57510 SMF	PR75	75	720	130	L3B	278×175×175	B13	0	16.5	51/80	SMF+, ME, H, HD
1001584	57549 SMF	PR75H	78	750	135	L3	278×175×190	B13	0	17.4	51/80	SMF+, ME, H, HD
1001563	58514 SMF	PR85	85	800	150	L4B	315×175×175	B13	0	19.0	42/72	SMF, ME, H, HD
1001567	60044 SMF	PR100H	100	900	182	L5	353×175×190	B13	0	22.3	36/60	SMF, ME, H, HD
1000852	61002 SMF	PR110H	110	1000	203	L6	394×175×190	B13	0	24.6	36/60	SMF, ME, H, HD

BATTERY REPLACEMENT

- **Superior Quality:** Crafted to the highest standards for dependable performance.
- **Leak Protection:** Sealed cover construction ensures double the leak protection and 100% spill-proof performance, even at an angle of up to 55°. SMF+ cover types are roll-over proof.
- **Explosion Protection:** Built-in flame arrestor provides added safety by preventing flame intrusion.
- **Maintenance Free:** Designed for hassle-free use with no maintenance required throughout the battery's life.

Conventional batteries should always be replaced with an equivalent or superior battery to ensure they meet the vehicle's power requirements.



REMARKS

SMF+ Enhanced SMF
SMF Sealed Maintenance Free

ME
H Electrolyte Level Indicator Handle

HD
P Heavy Duty Post Poles

S
DP Stud Poles Dual Poles



VESNA Power Batteries

RELIABLE STARTING
ENHANCED SAFETY

Versatile and dependable, VESNA Power is the perfect choice for vehicles with basic electrical equipment but high starting needs. The expanded metal Ca/Ca technology offers excellent capacity, stability, and starting performance even at low temperatures, with the security of a fully sealed, maintenance-free battery.

Equipped with a Maintenance-Free SMF cover, these batteries ensure optimal spill protection and require no maintenance throughout their lifespan.

With a diverse range of sizes and capacities, VESNA Power batteries are a high-quality choice for vehicles of every class, providing a perfect fit for almost any vehicle.

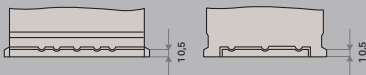


MAIN FEATURES

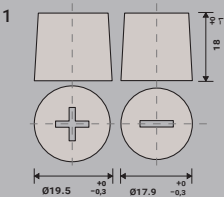
- **High Starting Power:** Delivers exceptional starting capabilities for reliable performance.
- **Enhanced Safety:** Explosion protection prevents sparks from entering the battery.
- **Reliable in Extreme Conditions:** Designed to perform dependably in even the most challenging climates.
- **Leak Protection:** Sealed cover construction ensures double the leak protection and 100% spill-proof performance, even at an angle of up to 55°. SMF+ cover types are roll-over proof.
- **Explosion Protection:** Built-in flame arrestor provides added safety by preventing flame intrusion.

BHD

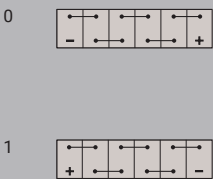
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TERMINALS



LAYOUT



APPLICATION



Flooded Starter Batteries, Ca/Ca Technology

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000859	54506	B45	45	400	71	L0	175×175×190	B13	0	10.4	72/120	K
1001573	54002 SMF	P040	40	360	62	L1B	207×175×175	B13	0	10.6	72/120	SMF+, H
1001588	54003 SMF	P040X	40	360	62	L1B	207×175×175	B13	1	10.6	72/120	SMF+, H
1001555	54502 SMF	P045	45	420	71	L1B	207×175×175	B13	0	11.1	72/120	SMF+, H
1001596	54559 SMF	B45H	45	400	71	L1	207×175×190	B13	0	11.5	72/100	SMF+, H
1001575	55010 SMF	P050H	50	450	81	L1	207×175×190	B13	0	12.0	72/100	SMF+, H
1001574	55001 SMF	B54	54	450	88	L2B	242×175×175	B13	0	12.6	63/108	SMF+, H
1001577	55509 SMF	P055	55	500	90	L2B	242×175×175	B13	0	13.2	63/108	SMF+, H
1001604	55559 SMF	B55H	55	500	90	L2	242×175×190	B13	0	13.7	63/90	SMF+, H
1001579	56008 SMF	P060H	60	600	100	L2	242×175×190	B13	0	14.2	63/90	SMF+, H
1001571	56013 SMF	P060HX	60	600	100	L2	242×175×190	B13	1	14.2	63/90	SMF+, H
1001580	57009 SMF	B70	70	620	116	L3B	278×175×175	B13	0	15.4	51/80	SMF+, H, HD
1001560	57309 SMF	P073	73	630	126	L3B	278×175×175	B13	0	15.8	51/80	SMF+, H, HD
1001583	56638 SMF	B73H	73	600	126	L3	278×175×190	B13	0	16.0	51/80	SMF+, H, HD
1001561	57412 SMF	P074H	74	680	128	L3	278×175×190	B13	0	17.3	51/80	SMF+, H, HD
1001593	57413 SMF	P074HX	74	680	128	L3	278×175×190	B13	1	17.3	51/80	SMF+, H, HD
1001585	59249 SMF	B92H	92	800	165	L4	315×175×190	B13	0	19.8	42/60	SMF+, H, HD
1001565	59220 SMF	P092	92	800	165	L5B	353×175×175	B13	0	20.3	36/72	SMF, H, HD
1001564	59222 SMF	P088H	88	720	156	L5	353×175×190	B13	0	21.0	36/60	SMF, H, HD
1001551	60038 SMF	P010H	100	850	182	L5	353×175×190	B13	0	22.3	36/60	SMF, H, HD, ME

BATTERY REPLACEMENT

Conventional batteries should always be replaced with an equivalent or superior battery to ensure they meet the vehicle's power requirements.



REMARKS

SMF+ Enhanced SMF**SMF** Sealed Maintenance Free**H** Handle**HD** Heavy Duty**ME** Electrolyte Level Indicator**K** Kamina



VESNA Power JIS and BCI Types

Flooded Starter Batteries, **Ca/Ca** Technology

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1001553	53520 SMF	P035J	35	270	53	B19	196×128×202/223	B0	0	9.4	96/128	SMF, H, JIS
1001568	53522 SMF	P035JX	35	270	53	B19	196×128×202/223	B0	1	9.4	96/128	SMF, H, JIS
1001572	53521 SMF	P035JP	35	270	53	B19	196×134×202/223	B01	0	9.4	96/128	SMF, H, JIS
1001554	54520 SMF	P045J	45	360	71	B19	196×134×202/223	B01	0	10.5	96/128	SMF, H, JIS, A
1001569	54522 SMF	P045JX	45	360	71	B19	196×134×202/223	B01	1	10.5	96/128	SMF, H, JIS, A
1001603	54523/84 SMF	P045JA	45	360	71	B24	236×128×202/223	B0	0	11.7	72/96	SMF, H, JIS, A
1001606	54524/51 SMF	P045JAX	45	360	71	B24	236×128×202/223	B0	1	11.7	72/96	SMF, H, JIS, A
1001611	55523/84 SMF	P055JA	55	490	90	B24	236×128×202/223	B0	0	13.1	72/96	SMF, H, JIS, A
1001607	55524/51 SMF	P055JAX	55	490	90	B24	236×128×202/223	B0	1	13.1	72/96	SMF, H, JIS, A
1001557	56068 SMF	P060J	60	600	100	D23	230×173×200/221	B01	0	14.7	60/90	SMF, ME, H
1001570	56069 SMF	P060JX	60	600	100	D23	230×173×200/221	B01	1	14.7	60/90	SMF, ME, H
1001613	56568 SMF	P065J	65	650	110	D23	230×173×200/221	B01	0	15.3	60/90	SMF, ME, H
1001615	56569 SMF	P065JX	65	650	110	D23	230×173×200/221	B01	1	15.3	60/90	SMF, ME, H
1001582	57029 SMF	P070J	70	700	120	D26	259×175×200/221	B1	0	17.1	48/80	SMF, ME, H
1001592	57024 SMF	P070JX	70	700	120	D26	259×175×200/221	B1	1	17.1	48/80	SMF, ME, H
1001614	57529 SMF	P075J	75	740	130	D26	259×175×200/221	B1	0	17.9	48/80	SMF, ME, H
1001608	57524 SMF	P075JX	75	740	130	D26	259×175×200/221	B1	1	17.9	48/80	SMF, ME, H
1001586	59518 SMF	P095J	95	850	171	D31	306×173×200/221	B01	0	20.8	42/70	SMF, ME, H
1001594	59519 SMF	P095JX	95	850	171	D31	306×173×200/221	B01	1	20.8	42/70	SMF, ME, H
1001605	BCI 31P SMF	V90BCIP	90	800	161	BCI 31	330×173×218/239	B1	0	23.1	42/60	SMF, ME, H, HD, P
1001609	BCI 31S SMF	V100BCIS	100	900	182	BCI 31	330×173×218/239	B1	0	24.0	42/60	SMF, ME, H, HD, S
1001601	BCI 31 SMF-D	P110BCID	110	1000	203	BCI 31	330×173×218/237	B1	0	26.2	42/60	SMF, ME, H, HD, DP



REMARKS

SMF Sealed Maintenance Free
H Handle

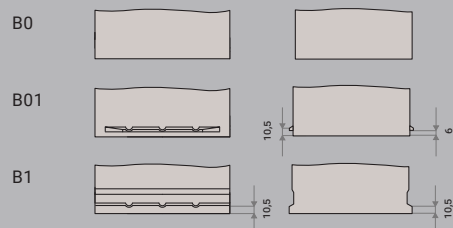
JIS Japanese Poles
A Pole Adapter

ME Electrolyte Level Indicator
HD Heavy Duty

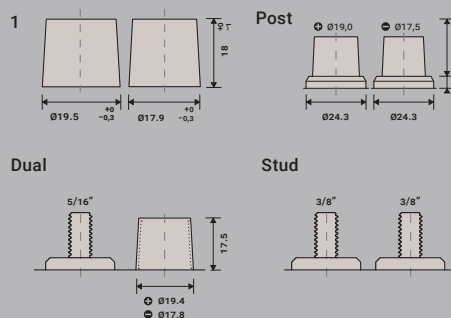
P Post Poles
S Stud Poles

DP Dual Poles

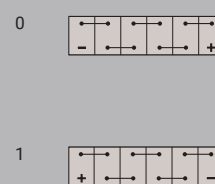
BHD



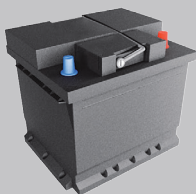
TERMINALS



LAYOUT



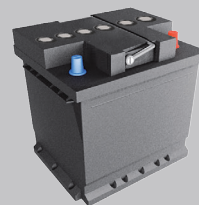
L1B SMF+
207×175×175
B13



L1 SMF+
207×175×190
B13



L1 AGM
207×175×190
B13



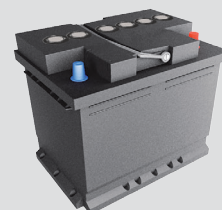
L2B SMF+
242×175×175
B13



L2 SMF+
242×175×190
B13



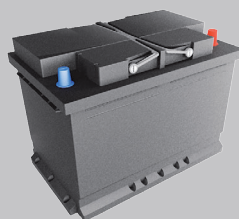
L2 AGM
242×175×190
B13



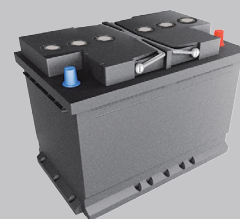
L3B SMF
278×175×175
B13



L3 SMF
278×175×190
B13



L3 AGM
278×175×190
B13



L4B SMF
315×175×175
B13



L4 SMF
315×175×190
B13



L4 AGM
315×175×190
B13



L5B SMF
353×175×175
B13



L5 SMF
353×175×190
B13



L5 AGM
353×175×190
B13



BOX TYPES

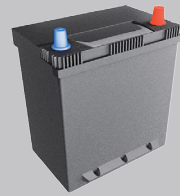
L6
394×175×190
B13



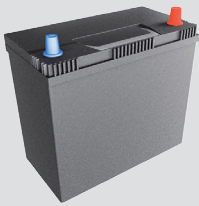
L6 AGM
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B13



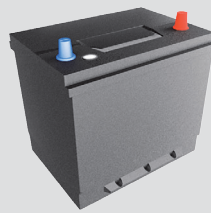
B19
196×134×202/223
B01



B24
236×128×202/223
B0



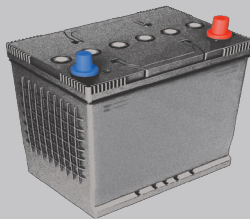
D23
230×173×200/221
B01



D26
259×175×200/221
B1



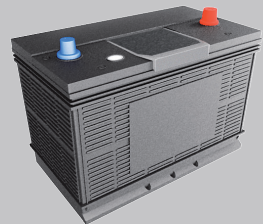
D26 AGM
261×173×198/221
B1



D31
306×173×200/221
B01



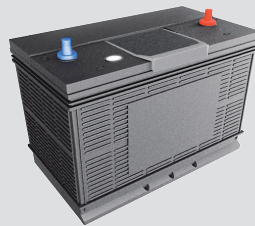
BCI 31 SMF
330×173×218/239
B1



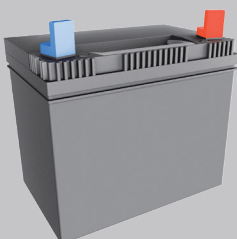
BCI 31 DUAL SMF
330×173×218/237
B1



BCI 31 STUD
330×173×218/239
B1



Mower
196×127×159/185
B0



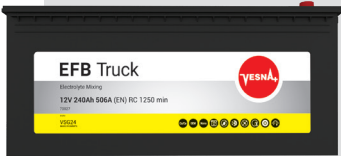
L0
175×175×190
B13



Untamed Power. Proven Performance.

-  Double Lid System
-  No Water Consumption
-  Low Water Consumption
-  Extreme Climatic Conditions
-  Reduced need for Maintenance
-  Maintenance Free
-  Spill-proof up to 55° angle
-  Magic Eye
-  +30% better Starting Capabilities
-  Vibration Resistance
-  Electrolyte Mixing System

Commercial Vehicle Batteries

VESNA Range	VESNA EFB	VESNA Premium Truck	VESNA Power Truck
			
Technology	EFB	Flooded Ca/Ca	Flooded Ca/Ca
Application	Recent commercial vehicles with increased energy demands of long-distance traffic, numerous comfort and safety features, also off-highway and heavy-duty application	Commercial vehicles with high energy demands of long-distance traffic, also off-highway and heavy-duty application	Commercial vehicles with standard energy demands of highway and off-highway traffic and also heavy-duty application
Vibration Resistance (EN-50342-1)	V4	V3/V4 (depending on a type)	V3
Maintenance	Maintenance Free	Maintenance Free	Maintenance Free (electrolyte accessible)
Cold Cramping Amps (CCA)			
Charge Acceptance			
Cycle life			
Deep-Cycle Resistance			
Replacement	EFB or AGM	Equivalent or better	Equivalent or better

VESNA EFB Commercial Vehicle Batteries

UNINTERRUPTED POWER
MAXIMUM RESISTANCE

The new generation of commercial vehicles demands batteries with high starting power and rapid recharge capability to support comfort and safety systems that require ever-increasing energy.

VESNA EFB Truck, featuring Heavy Duty technology and innovative VTL elements for maximum vibration resistance, ensures consistent performance and reliability even in the toughest operating conditions. The efficiency of the active material is optimized by vertical electrolyte agitation, providing longer life and instant response in every situation.



MAIN FEATURES

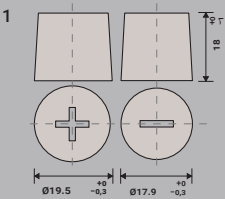
- **Euro 6 Compatible:** Designed for Euro 6 trucks, including “end of frame” installations, ensuring compatibility with modern vehicle standards.
- **Electrolyte Mixing System:** Promotes acid motion in a vertical direction, helping to eliminate stratification for improved battery efficiency and longer life.
- **Excellent Vibration Resistance – V4:** Thanks to the HD-VTL design, the battery offers superior vibration resistance, ensuring reliability even in rough conditions.
- **Increased Capacity:** Designed to handle higher energy demands, providing more reliable power for commercial vehicles.
- **More Energy During Stops:** Provides enhanced energy storage, ensuring consistent performance during frequent and irregular stops.
- **New Positive Active Mass Composition:** Delivers greater resistance to deep cycling, extending the battery’s service life and improving its performance over time.

BHD

B0



TERMINALS



LAYOUT



APPLICATION

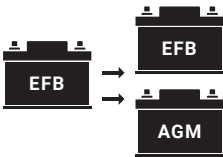


Enhanced Flooded Batteries, **Ca/Ca** technology

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1001920	69032 EFB	VSG19	190	1100	385	B	513×222×194/216	B0	3	44.8	21/28	SMF, ME, H, HD, EMS, V4
1001776	74027 EFB	VSG24	240	1250	506	C	517×275×214/236	B0	3	58.2	18/24	SMF, ME, H, HD, EMS, V4

BATTERY REPLACEMENT

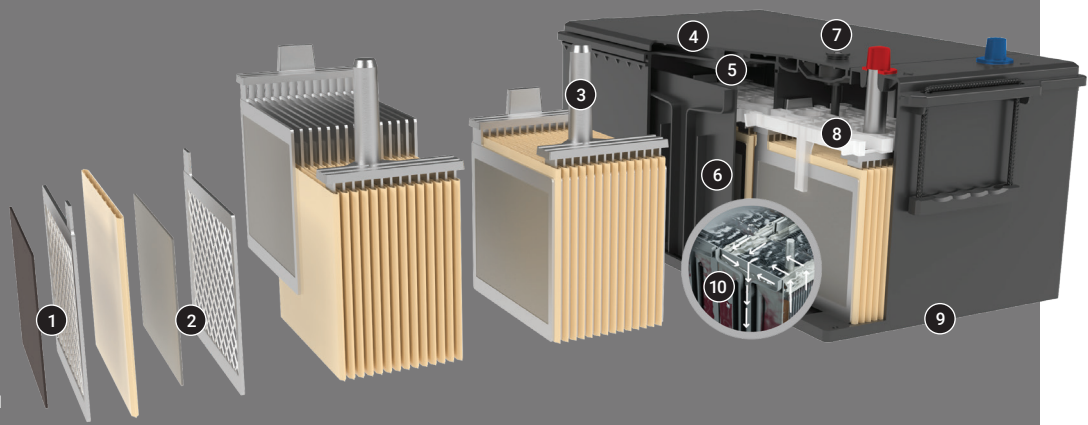
- **Improved Dynamic Charge Acceptance:** Allows the battery to accept charges more quickly, making it ideal for short, frequent recharging cycles.
- **New Separators:** Advanced separators enhance the battery's durability and reduce the risk of internal short circuits.
- **Partial State of Charge Operation:** Capable of functioning effectively even in partial states of charge, offering more flexibility in energy usage.
- **Longer Battery Life:** Engineered for extended longevity, ensuring fewer replacements and reduced maintenance costs.



REMARKS

SMF Sealed Maintenance Free **H** Handle **EMS** Electrolyte Mixing System
ME Electrolyte Level Indicator **HD** Heavy Duty **V4** Vibration Resistance (EN-50342-1)

- 1 POSITIVE PLATES WITH THICK CASTED GRIDS
- 2 NEGATIVE PLATES WITH ADDITIVES
- 3 ROBUST PLATE CONNECTORS
- 4 TOP SMF LID WITH CENTRAL DEGASSING AND FLAME ARRESTORS
- 5 MAIN LID WITH LABYRINTH INTEGRATED INTERNAL FLEXIBLE RIBS
- 6 MAGIC EYE
- 7 VTL ELEMENTS (C BOX)
- 8 POLYPROPYLENE CONTAINER
- 9 ELECTROLYTE MIXING SYSTEM



VESNA Premium Truck Batteries

MAXIMUM ENERGY
HIGH POWER

VESNA Premium Truck batteries are built using cutting-edge manufacturing technologies, ensuring outstanding cold-start capabilities and consistent power delivery to support the intense energy requirements of today’s commercial vehicles.

Engineered for durability under the toughest operating conditions, they offer peak performance even in vehicles with substantial electrical demands. The Sealed Maintenance Free (SMF) design guarantees full protection against leaks and eliminates the need for maintenance over the battery’s entire service life.

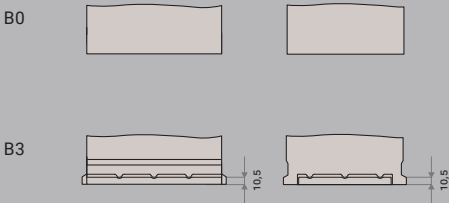
Robust, reliable, and maintenance-free – VESNA Premium Truck batteries are the perfect power solution for commercial vehicles operating in the most challenging environments.



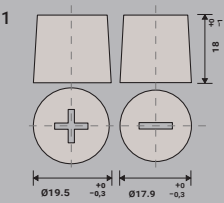
MAIN FEATURES

- **Sealed Cover Construction:** Provides complete protection against leaks and spills.
- **Expanded Metal Technology:** Enhances corrosion resistance, significantly extending battery lifespan.
- **Magic Eye Level Indicator:** Offers an instant and easy battery status check.
- **Explosion Protection:** Safeguards the battery from flame intrusion for added safety.
- **Ideal for High-Energy Vehicles:** Perfect for commercial vehicles with numerous electrical systems.
- **Highest Quality:** Built to the highest standards, ensuring reliability and long-lasting performance.
- **Electrolyte Mixing System:** Available in B and C box types, this system promotes acid motion in a vertical direction, helping to eliminate stratification for improved battery efficiency and longer life.

BHD



TERMINALS



LAYOUT



APPLICATION



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

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000691	63544 SMF	VTP13M	135	850	258	MAC110	509×175×196/218	B3	3	33.1	24/40	SMF, ME, H, HD
1000850	64030 SMF	VTP14	140	850	269	A	507×188×200/222	B0	3	35.3	24/35	SMF, ME, H, HD
1000702	65048 SMF	VTP15M	150	1000	292	MAC110	509×175×196/218	B3	3	36.4	24/40	SMF, ME, H, HD
1001761	65018 SMF	VTP15	150	950	292	B	513×222×194/216	B0	3	39.6	21/35	SMF, ME, H, HD, EMS, V4
1001762	68032 SMF	VTP18	180	1100	361	B	513×222×194/216	B0	3	42.8	21/28	SMF, ME, H, HD, EMS, V4
1000705	70027 SMF	VTP20	200	1200	409	C	517×275×214/236	B0	3	52.5	18/24	SMF, ME, H, HD, EMS, V4
1000707	72527 SMF	VTP22	225	1300	469	C	517×275×214/236	B0	3	55.8	18/24	SMF, ME, H, HD, EMS, V4

BATTERY REPLACEMENT

Conventional batteries should always be replaced with an equivalent or superior battery to ensure they meet the vehicle's power requirements.



REMARKS

SMF Sealed Maintenance Free
ME Electrolyte Level Indicator

H Handle
HD Heavy Duty

EMS Electrolyte Mixing System
V4 Vibration Resistance (EN-50342-1)



VESNA Power Truck Batteries

UNLIMITED RELIABILITY
EXCEPTIONAL SAFETY

VESNA Power Truck batteries are engineered for commercial vehicles with standard electrical equipment, delivering strong starting power, dependable performance, and lasting reliability. Designed to meet the everyday demands of modern trucks, they ensure consistent operation even in tough conditions.

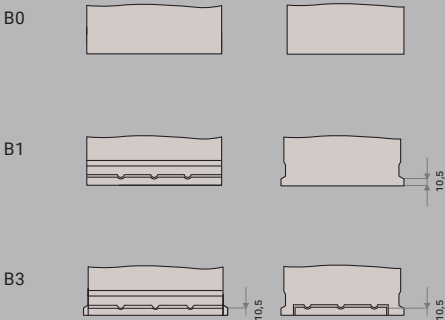
For commercial vehicles operating in demanding environments, the VESNA Power Truck battery offers a reliable and high-performance power solution you can count on.



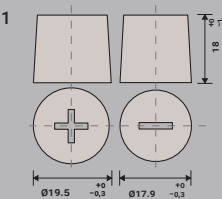
MAIN FEATURES

- **High Starting Capabilities:** Delivers strong starting power even under tough conditions.
- **Reliable Performance in Extreme Climates:** Ensures dependable starting and operation in a wide range of temperatures.
- **Ca/Ca Technology:** Manufactured using advanced Ca/Ca technology for optimal performance and durability. The battery is equipped with a flat lid and M27 plugs for easy access and simple maintenance.
- **Hybrid design:** Only minimal maintenance required, while maintaining a high tolerance on charging requirements.
- **Electrolyte Mixing System:** Available in B and C box types, this system promotes acid motion in a vertical direction, helping to eliminate stratification for improved battery efficiency and longer life.

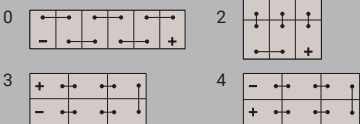
BHD



TERMINALS



LAYOUT



APPLICATION



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

VESNA ID	DIN marking	Short code	C20 (Ah)	EN (A)	RC (min)	Box type	L×W×H (mm)	BHD	Layout	Weight (kg)	PCS/Pallet (EUR/CNT)	Remarks
1000856	61028	VT11	110	800	203	60528	345×172×218/238	B0	0	26.5	36/48	H
1000854	61028	VT11P	110	800	203	60528	345×175×218/238	B1	0	26.5	36/48	H
1002641	61044	VT11M	110	720	203	MAC110	509×175×182/202	B3	3	31.0	24/40	H, HD
1000857	62512	VT12H	125	800	235	62512	345×172×269/289	B0	0	31.0	24/36	H
1003047	63530	VT13A	135	850	258	A	513×189×194/216	B0	3	35.3	24/35	H, HD
1002395	63544	VT13M	135	850	258	MAC110	509×175×182/202	B3	3	33.1	24/40	H, HD
1003048	63545	VT13MR	135	850	258	MAC110	509×175×182/202	B3	4	33.1	24/40	H, HD
1032807	64517	VT14M	145	900	281	MAT132	509×175×186/206	B1	0	33.3	24/40	H, HD
1002530	65048	VT15M	150	1000	292	MAC110	509×175×182/202	B3	3	36.4	24/40	H, HD
1000516	67018	VT17	170	1050	338	B	512×223×194/216	B0	3	42.2	21/28	H, HD, EMS
1000517	67019	VT17R	170	1050	338	B	512×224×194/216	B3	4	42.2	21/28	H, HD, EMS
1000566	68032	VT18	180	1100	361	B	512×223×194/216	B0	3	42.8	21/28	H, HD, EMS
1000586	69032	VT19	190	1200	385	B	512×223×194/216	B0	3	42.8	21/28	H, HD, EMS
1003049	70027	VT20C	200	1200	409	C	518×273×214/235	B0	3	52.2	18/24	H, HD, EMS
1003050	72527	VT22	225	1300	469	C	518×273×214/235	B0	3	55.5	18/24	H, HD, EMS
1002282	6TN	VT11D7	110	740	203	D7	283×269×208/230	B0	2	30,8	24/36	H, HD

BATTERY REPLACEMENT

Conventional batteries should always be replaced with an equivalent or superior battery to ensure they meet the vehicle's power requirements.



REMARKS

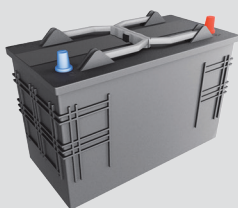
H Handle
HD Heavy Duty

EMS Electrolyte Mixing System



60528

345×172×218/238
B0

**62512**

345×172×269/289
B0

**D7**

283×269×208/230
B0

**MAC110**

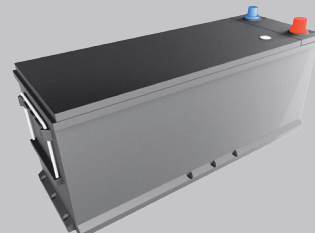
509×175×182/202
B3

**MAC110**

509×175×182/202
B3

**MAC110 SMF**

509×175×196/218
B3

**A**

513×189×194/216
B0

**A SMF**

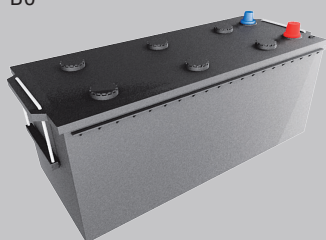
507×188×200/222
B0

**MAT132**

509×175×196/206
B1

**B**

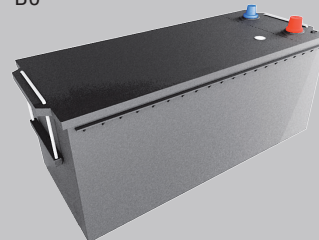
512×223×194/216
B0

**B**

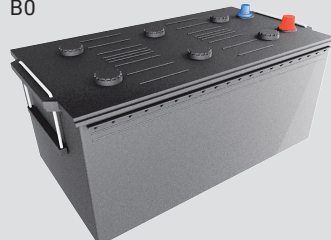
512×224×194/216
B3

**B SMF**

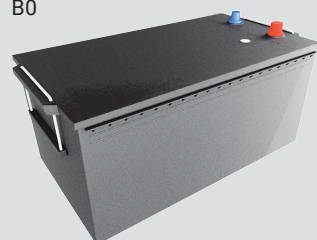
513×222×194/216
B0

**C**

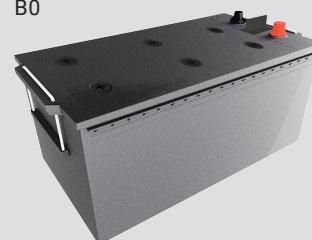
518×273×214/235
B0

**C SMF**

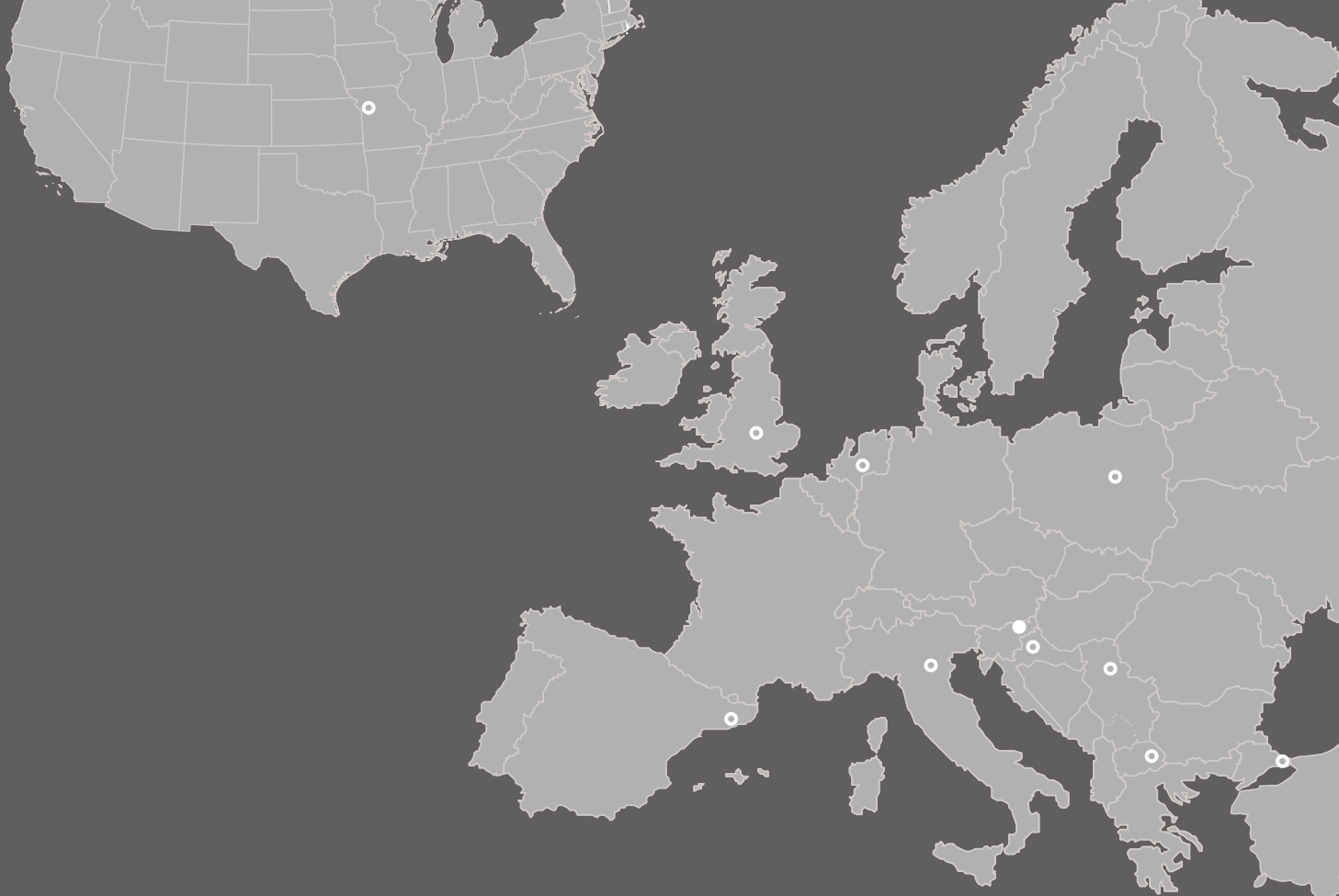
517×275×214/236
B0

**C AGM**

518×274×216/243
B0

**BOX TYPES**

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



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