



READY TO RIDE WITHOUT LIMITS.

Your essential guide to Powersports Batteries.



POWERSPORTS PRODUCT FOLDER

It all starts with  **VARTA**



NOW IT'S EVEN EASIER TO FIND EXACTLY WHAT YOU NEED.

This catalogue is an essential guide to the facts you need about the extensive range of VARTA Powersports products and technology.

How and where to find the right VARTA battery.

On our homepage, at www.varta-automotive.com, key in the vehicle manufacturer and model, or the JIS Code, and the online Product Finder quickly finds what you need.

Then, when you're armed with the name of the product, simply enter your country and postcode, and our Retailer Search gives you a list of local dealers.

www.varta-automotive.com



VARTA® POWERSPORTS – SUPERB PERFORMANCE ON ANY TERRAIN.

VARTA Powersports batteries deliver the power you need – no matter what vehicle or terrain. The battery range provides reliable starting power, exceptional energy supply and a robust construction to withstand vibrations. With these models covering every kind of powersport, there's sure to be a Powersports battery that's made for your ride.



Powersports AGM Active



Powersports AGM High Performance



Powersports AGM



Powersports Freshpack



Powersports Gel



Powersports

Applications							

Features														

Benefits	<ul style="list-style-type: none"> Precision charged, filled and permanently sealed Longer life time* Low self-discharge 	<ul style="list-style-type: none"> Up to 20% more cold cranking power* Enhanced life time* Easy to store due to dry battery with acid pack 	<ul style="list-style-type: none"> Dry-charged battery delivered in Freshpack version (with acid pack) Delivers maximum power, even in extreme conditions 	<ul style="list-style-type: none"> Dry-charged battery delivered in Freshpack version (with acid bottle) Reliable starting power in hot and cold weather 	<ul style="list-style-type: none"> Ideal for touring bikes with extra features, such as anti-lock brakes Supplied fully charged and ready to go 	<ul style="list-style-type: none"> With specific battery terminals to fit any mower, installation is exceptionally quick Very high cranking performance
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* in comparison with conventional batteries



VARTA® POWERSPORTS AGM AND AGM HIGH PERFORMANCE.

AGM technology is the optimal solution for motorcycles with increased energy requirements. In addition to the better cold start performance, the AGM batteries can be mounted with an installation angle of up to 45°. The AGM and AGM High Performance are ideal for storage thanks to the acid pack supplied separately.

These two models are only surpassed in performance by the AGM Active, which was designed without an acid pack for immediate use.

Featuring AGM (Absorbent Glass Mat) technology

Battery terminal construction

Solidly built to reduce corrosion and prevent acid leakage, ensuring your battery lasts longer.

Integral flame arrestors

Integral flame arrestors protect the battery from sparks and flames.

Cell connectors

The connectors join the individual battery cells together, via the plate block, creating a shorter energy path and increasing starting power.

Specialised grid design

Created for optimum conductivity and high resistance to vibration – essential when you're riding off-road.

Absorbent Glass Mat (AGM)

The special Absorbent Glass Mat (AGM) soaks up all the acid in the battery, providing high cyclic stability. This enables the battery to be repeatedly charged and discharged without any loss of performance.

FILLING YOUR POWERSPORTS AGM BATTERY IS EASY.

The Powersports AGM is supplied dry with a separate acid pack and needs to be filled before use. Follow the steps below:



Prepare the battery

Place the battery on an even surface and remove the sealing strip.



Prepare the battery acid holder

Take the battery acid pack out of the plastic bag. Remove the sealing cap strips and set aside for later use. Do not remove or pierce the acid holder seals.



Fill the battery acid

Place the acid pack vertically on top of the battery, making sure that its six sealed openings are aligned with the six feed openings of the battery. Press the acid pack firmly downwards to pierce the seals – the acid will automatically start to flow into the battery. Make sure the pack is not tilted, as this can prevent the acid from flowing freely.



Check the battery acid flow

Ensure air bubbles are rising from each of the six feed openings and, if they're not, tap lightly on the acid pack. Leave the acid pack in place until it's empty. **Note:** never remove the acid pack during filling.



Remove the acid pack

Ensure that all of the battery acid has flowed out of the acid pack. If any acid remains inside, tap lightly on the holder as described above. Then carefully pull the acid pack out of the battery.



Seal the battery

Firmly press the sealing cap strip into the feed opening, ensuring that the strip is at the same level as the top of the battery. Then use both hands to evenly press the sealing cap strip downwards. This completes the filling process. Do not remove the sealing cap strip; no additional water or battery acid should be required. Please allow 20 minutes for the acid to be absorbed before fitting the battery.



For safety, always wear protective gloves when filling the battery.

Extra-strong casing and lid material

The special oil and petrol resistant plastic gives great protection against extreme temperatures.

VARTA® POWERSPORTS FRESHPACK.

Designed for almost every application in the medium application segment. The supplied acid pack makes it easy to store and use when you need it.

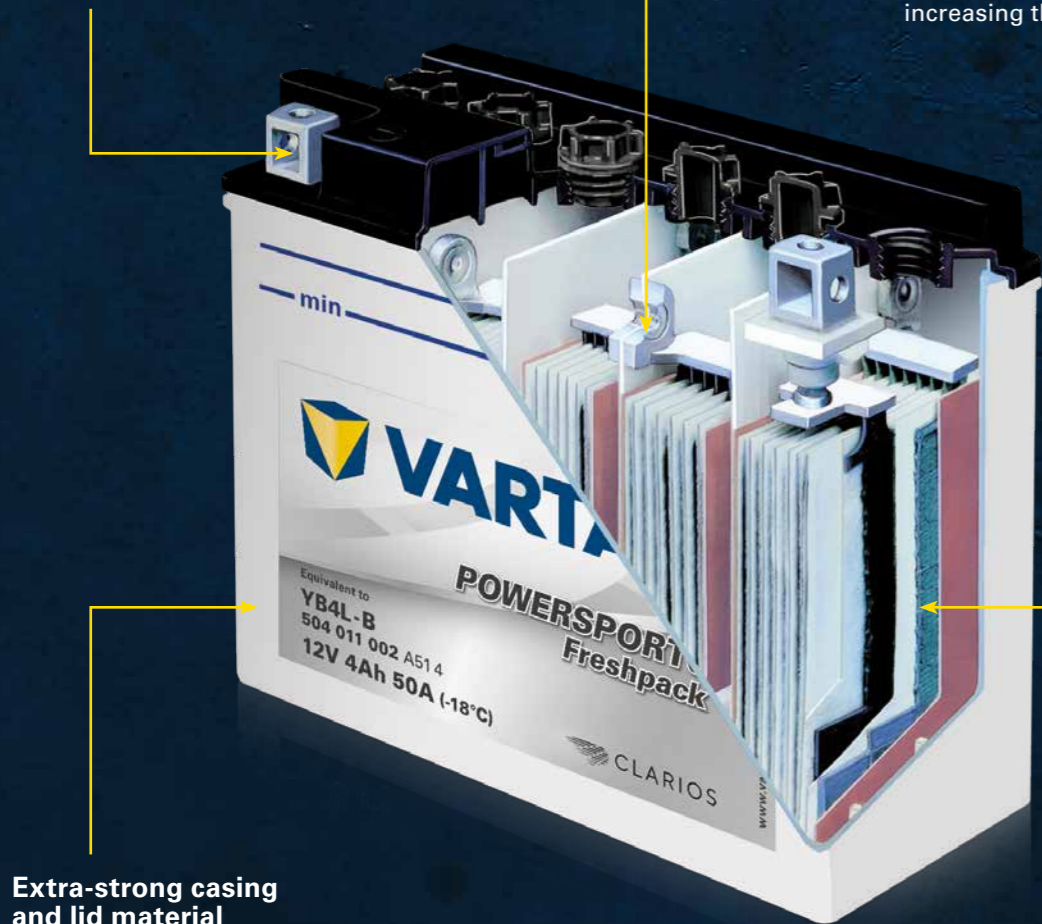
Featuring Starter Batteries Lead Acid (SLI) technology

Battery terminal construction

Solidly built to reduce corrosion and prevent acid leakage, ensuring your battery lasts longer.

Cell connectors

The connectors join the individual battery cells together, via the plate block, creating a shorter energy path and increasing the starting power.



Extra-strong casing and lid material

The special oil and petrol resistant plastic gives great protection against extreme temperatures.

Specialised grid design

Created for optimum conductivity and high resistance to vibration – essential when you're riding off-road.

FILLING YOUR POWERSPORTS FRESHPACK BATTERY IS EASY.

The Powersports Freshpack is supplied dry with a separate acid bottle and needs to be filled before use. Follow the steps below:



1 Prepare the battery

Remove all plugs on top of the battery, by twisting or pulling them, and set aside for later use.



2 Expose the vent

The vent plug on the side of the battery must be removed prior to filling.



3 Open the acid bottle

Carefully cut off the acid bottle nozzle, leaving a minimum nozzle height of 10 mm. **Please note:** the acid bottle nozzle must not be removed too close to the container or the filling tube cannot be attached.



4 Attach the filling tube

Attach the red filling tube firmly onto the nozzle of the acid bottle.



5 Fill the battery with acid

Slowly fill the battery with acid, ensuring that all chambers are filled individually and evenly up to the 'max' mark. The amount of acid provided in the acid bottle is exactly the amount required.



6 Dispose of the acid bottle

The completely empty acid bottle is recyclable. Please check with your local recycling services.



7 Seal the plugs

After filling, completely seal the battery using the plugs removed in step 1. The vent plug on the side should not be re-inserted.



For safety, always wear protective gloves when filling the battery.

TIPS TO HELP YOU GET THE MOST FROM YOUR BATTERY.



Checking the battery

Before starting the engine or charging the battery, it's a good idea to carry out a simple 3-step check:

1. Check the terminals, connections, connectors and cables for any damage, corrosion or fractures
2. Check the battery casing for fractures, leaks and discolouration
3. Check the acid level (Powersports Freshpack only) and, if necessary, top up with distilled water



Testing

The best (and easiest) way to test a battery is using a voltmeter or multimeter to measure the voltage. Once you know the exact voltage, use the table below to gauge the state of charge.

Voltage		State of charge	Status	Action required
Freshpack	AGM			
>12.6 Volt	13.0 Volt			No action necessary
12.5 Volt	12.8 Volt			No action necessary
12.1 Volt	12.5 Volt			Battery needs to be charged
11.9 Volt	12.2 Volt			The battery must be recharged urgently
<11.9 Volt	<12.0 Volt			Battery is no longer usable



Charging



The battery needs to be fully charged to deliver optimum performance. The recommended charging current is 10% of the nominal capacity in amperes (e.g. a 4 Ah battery requires a 0.4 A charging current). For a step-by-step guide on how to charge your particular battery, please refer to the instruction manual supplied with it.

Maintenance



Our Powersports AGM and Powersports Gel batteries are completely maintenance-free. We recommend a regular servicing for our Powersports Freshpack (tolling-up) and for our Powersports Gardening (recharge).

1. Check the acid level (Powersports Freshpack only) and top up with distilled water if necessary
2. Keep the battery and terminals clean
3. Check the cables and connectors for loose connections and check the casing for damage

NB: all VARTA® batteries come with full usage and maintenance instructions.

Storage



Incorrect storage is one of the main causes of malfunction in any Powersports battery. That's because sulphates are released as the battery discharges, causing corrosion and damage. So it's vital to store your battery correctly to ensure it performs at its best:

1. Charge the battery before storage
2. Disconnect the battery's negative terminal from your vehicle
3. Make sure the battery is stored in a clean, dry place
4. Check the state of charge once a month and recharge if necessary



Powersports AGM Active

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 2								
503 909 005	YTX4L-4	113	70	87	⊖ ⊕	3	50	Y4
504 909 007	YTX5L-4	113	70	105	⊖ ⊕	4	75	Y4
506 909 009	YTX7A-4	150	87	95	⊖ ⊕	6	90	Y4
506 919 009	YTX7L-4	113	70	130	⊖ ⊕	6	90	Y4
508 909 013	YTX9-4	151	87	106	⊖ ⊕	8	135	Y4
510 909 017	YTX12-4	150	87	130	⊖ ⊕	10	170	Y4
512 909 020	YTX14-4	150	87	146	⊖ ⊕	12	200	Y4
518 909 027	YTX20L-4	175	87	154	⊖ ⊕	18	270	Y4



Powersports AGM High Performance

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 4								
512 905 020	YTX14L-BS	150	87	146	⊖ ⊕	12	200	Y4
512 908 021	YTX14AH-BS	134	89	166	⊖ ⊕	12	210	Y4
512 918 021	YTX14AHL-BS	134	89	166	⊖ ⊕	12	210	Y4
518 908 027	YTX20CH-BS	150	87	161	⊖ ⊕	18	270	Y4
518 908 032	YTX20H-BS	175	87	154	⊖ ⊕	18	320	Y4
518 918 032	YTX20HL-BS	175	87	154	⊖ ⊕	18	320	Y4
519 905 027	YTX16CL-B-BS	178	102	175	⊖ ⊕	19	270	Y4
521 908 034	YTX24HL-BS	205	90	164	⊖ ⊕	21	340	Y4
530 905 045	YTX30L-BS	166	127	175	⊖ ⊕	30	450	Y4



Powersports AGM

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 4								
503 014 003	YT4L-4 YT4L-BS	114	71	86	⊖ ⊕	3	40	Y5
503 903 004	YTR4A-BS	114	49	86	⊖ ⊕	2.3	30	Y12
504 012 003	YTX5L-4 YTX5L-BS	114	71	106	⊖ ⊕	4	80	Y5
506 014 005	YTX7L-4 YTX7L-BS	114	71	131	⊖ ⊕	6	100	Y5
506 015 005	YTX7A-4 YTX7A-BS	151	88	94	⊖ ⊕	6	105	Y5
507 901 012	YT7B-4 YT7B-BS	150	66	94	⊖ ⊕	7	120	Y11
507 902 011	TTZ7S-4 TTZ7S-BS	113	70	105	⊖ ⊕	5	120	Y5
508 012 008	YTX9-4 YTX9-BS	152	88	106	⊖ ⊕	8	135	Y5
508 901 015	TTZ10S-4 TTZ10S-BS	150	87	93	⊖ ⊕	8	150	Y11
509 901 020	TTZ12S-4 TTZ12S-BS	150	87	110	⊖ ⊕	9	200	Y11
509 902 008	YT9B-4 YT9B-BS	149	70	105	⊖ ⊕	8	115	Y11
510 012 009	YTX12-4 YTX12-BS	152	88	131	⊖ ⊕	10	150	Y5
511 901 014	YT12A-4 YT12A-BS	150	88	105	⊖ ⊕	11	160	Y4
511 902 023	TTZ14S-4 TTZ14S-BS	150	87	110	⊖ ⊕	11	230	Y11
512 014 010	YTX14-4 YTX14-BS	152	88	147	⊖ ⊕	12	200	Y5
512 901 019	YT12B-4 YT12B-BS	151	70	131	⊖ ⊕	12	215	Y11
512 903 013	YT14B-4 YT14B-BS	152	70	150	⊖ ⊕	13	190	Y11
514 901 022	YTX16-4-1 YTX16-BS-1	150	87	161	⊖ ⊕	14	210	Y1
514 902 022	YTX16-4 YTX16-BS	150	87	161	⊖ ⊕	14	210	Y4
518 901 026	YTX20L-4 YTX20L-BS	177	88	156	⊖ ⊕	18	250	Y4
518 902 026	YTX20-4 YTX20-BS	177	88	156	⊖ ⊕	18	250	Y4



Powersports Freshpack - 6 Volt

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 4								
004 014 001	6N4-2A-2 6N4-2A-4 6N4-2A-7 6N4A-2A-4	71	71	96	⊖ ⊕	4	10	K30
006 012 003	6N6-3B-1	100	57	110	⊖ ⊕	6	30	Y6
008 011 004	B49-6	91	83	161	⊖ ⊕	8	40	Y6
012 014 008	6N11A-3A	122	61	135	⊖ ⊕	11	80	Y6



Powersports Freshpack - 12 Volt

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 4								
503 012 001	YB3L-A	100	58	112	⊖ ⊕	3	30	Y6
503 013 001	YB3L-B	100	58	112	⊖ ⊕	3	30	Y6
504 011 002	YB4L-B	121	71	93	⊖ ⊕	4	50	Y5
505 012 003	12N5-3B YB5L-B	121	61	131	⊖ ⊕	5	60	Y6
506 011 004	12N5.5-3B	136	61	131	⊖ ⊕	5.5	55	Y6
506 012 004	12N5.5A-3B	103	90	114	⊖ ⊕	5.5	58	Y6
507 012 004	12N7-3B YB7L-B	136	76	134	⊖ ⊕	7	74	Y6
507 013 004	12N7-4A	136	75	133	⊖ ⊕	7	74	Y6
507 101 008	GM7CZ-3D YB7C-A	132	92	116	⊖ ⊕	8	110	Y3
508 013 008	YB7-A	137	76	134	⊖ ⊕	8	110	Y6
509 014 008	12N9-4B-1 YB9-B	136	76	139	⊖ ⊕	9	85	Y6
509 015 008	12N9-3B YB9L-B	136	76	140	⊖ ⊕	9	85	Y6
509 016 008	YB9L-A2	135	75	139	⊖ ⊕	9	130	Y2
511 012 009	12N10-3A 12N10-3A-1 12N10-3A-2 YB10L-A2	136	91	146	⊖ ⊕	11	150	Y8
511 013 009	12N10-3B YB10L-B YB10L-B2	136	91	146	⊖ ⊕	11	150	Y6



Powersports Freshpack - 12 Volt

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 4								
512 011 012	12N12A-4A-1 YB12A-A	136	82	161	⊖ ⊕	12	160	Y6
512 013 012	YB12AL-A YB12AL-A2	136	82	161	⊖ ⊕	12	160	Y6
512 015 012	YB12A-B	136	82	162	⊖ ⊕	12	160	Y6
514 011 014	12N14-3A YB14L-A2	136	91	166	⊖ ⊕	14	190	Y8
514 012 014	YB14-A2	136	91	166	⊖ ⊕	14	190	Y8
514 013 014	YB14L-B2	136	91	166	⊖ ⊕	14	190	Y8
514 014 014	YB14-B2	134	89	166	⊖ ⊕	14	190	Y8
514 401 019	YB14A-A2	135	90	177	⊖ ⊕	14	190	Y8
516 015 016	YB16B-A YB16B-A1	158	89	162	⊖ ⊕	16	200	Y4
516 016 012	YB16AL-A2	205	72	164	⊖ ⊕	16	180	Y2
518 014 015	51814	186	82	171	⊖ ⊕	18 (20HR)	100	Y10
518 015 018	YB18L-A	181	90	160	⊖ ⊕	18	200	Y7
519 011 019	YB16L-B	176	101	156	⊖ ⊕	19	240	Y6
519 012 019	YB16-B	176	101	156	⊖ ⊕	19	240	Y6
519 013 017	51913	186	82	171	⊖ ⊕	19 (20HR)	100	Y10
519 014 018	YB16CL-B	176	101	176	⊖ ⊕	19	240	Y5
520 012 020	Y50-N18L-A Y50N18L-A2	207	92	164	⊖ ⊕	20	260	Y7
520 016 020	SY50-N18L-AT	205	90	162	⊖ ⊕	20	260	Y7
524 100 020	12N24-3	186	125	178	⊖ ⊕	24	200	Y3
524 101 020	12N24-4	186	125	178	⊖ ⊕	24	200	Y3
525 015 022	52515 Y60-N24L-A	186	130	171	⊖ ⊕	25 (20HR)	300	Y10
530 030 030	53030	186	130	171	⊖ ⊕	30 (20HR)	180	Y10
530 400 030	YB30L-B	168	132	176	⊖ ⊕	30	300	Y4



Powersports Gardening – 12 Volt

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 2								
522 450 034	U1 (9)	196	132	183		22	340	Y14
522 451 034	U1R (9)	196	132	183		22	340	Y14

Terminal Types

Terminal type	Front	Side	Top
Y1			
Y2			
Y3			
Y4			
Y5			
Y6			
Y7			
Y8			
Y9			
Y10			
Y11			
Y12			
Y13			
Y14			



Powersports Gel

VARTA® Code	JIS Code	Overall dimensions in mm			Layout, venting	Capacity [Ah]	Low-temperature testing current in A (-18 °C)	Terminal type
		L	W	H				
...A51 2								
519 901 017	-	186	82	173		19	170	Y10

VARTA Powersports AGM: up to an angle of 45° and VARTA Powersports FreshPack are not recommended for installation on their side.

Cable Connections

K30		<p>Cable with connector and safety retainer for pos. terminal, cable with connector for neg. terminal</p>
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Clarios is a world leader in advanced energy storage solutions. We partner with our customers to meet increasing market demand for smarter applications, on a global scale. Our employees develop, manufacture and distribute a portfolio of evolving battery technologies for virtually every type of vehicle. Technologies that deliver uniquely sustainable, next-generation performance, and bring reliability, safety and comfort to everyday lives. We add value at every link in the supply chain, contributing to the progress of the communities we serve and the planet we all share.

Learn more about Clarios at www.clarios.com



We are constantly improving and working on the efficiency of our supply chain processes to ensure a high quality service for you. To satisfy the continuously growing demand of batteries we opened our new, state of the art distribution center in Plazy, Czech Republic.

With its location close to Prague, the distribution center has an excellent connection to several motorways. This is the biggest and most modern distribution center in the EMEA region so far,

and will replace the 15 warehouses Clarios operated in and around the city of Zakupy in the past. On 23,000 m² up to 1.5 million batteries will be stored and prepared for delivery centrally from now on. Our new distribution center had to be designed according to the highest standards in regards to environmental, security and fire protection policies, as well as quality customer service. As the first warehouse in Czech Republic it has been registered with the LEED v4 certification for sustainability.

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