

# VARTA EasyBlade

The industry-proven battery pack standard for AGVs.



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# The ready-to-use energy solution for AGV projects

As Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs) play an immensely important role in factory automation, their continuous and self-controlled power supply is one of the most important tasks. Finding a reliable, high-performance and scalable battery solution can be a major challenge – unless you rely on the VARTA EasyBlade ready-to-use solution.

There is no need to go through time consuming and expensive processes to design and develop a battery from scratch. VARTA EasyBlade was developed for use in almost all AGV projects and is ready-to-use.

This means no additional design costs, no one-off engineering costs and no time expenditure, but full transparency also in terms of the TCO.

VARTA EasyBlade can solve a wide range of AGV challenges. It is the standardized and qualified battery pack with all necessary certifications to fulfill the requirements of the global AGV market. The battery packs are available off-the-shelf and engineered for easy integration into the AGV. VARTA EasyBlade covers all major market requirements for immediate use and for empowering independence and automation.



## Technical Information

|                   | Easy Blade 24                               | Easy Blade 36                               | Easy Blade 48                               |
|-------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Nominal capacity  | 58 Ah                                       | 44 Ah                                       | 29 Ah                                       |
| Watt-Hour-Rating  | 1.502 Wh                                    | 1.658 Wh                                    | 1.502 Wh                                    |
| Certification     | UN 38.3, IEC 62133-2:2017, UL2595, IEC60335 | UN 38.3, IEC 62133-2:2017, UL2595, IEC60335 | UN 38.3, IEC 62133-2:2017, UL2595, IEC60335 |
| Discharge current | 31 A                                        | 22,4 A                                      | 15,5 A                                      |
| Communications    | CANBus (CANopen)                            | CANBus (CANopen)                            | CANBus (CANopen)                            |

# A smart combination – Lithium-ion batteries and AGVs

Pairing AGVs with lithium-ion batteries is a great way to keep AGVs or AGMs moving and to get the most out of the investment. Lithium-ion batteries offer significantly higher productivity than lead-acid solutions due to their three times higher charging speed, lower maintenance requirements, two and a half times longer service life, and higher energy density.

A lithium-ion battery pack can be fully charged very quickly. They are also perfect for opportunity charging, i.e. the AGV or AGM can be charged in small increments. It can be used during natural downtimes, e.g. during shift changes. The installation space is much smaller compared to lead-acid solutions. More than 20 customer projects have already been realized with internationally renowned manufacturers.

“Easy, flexible and audited –  
the VARTA EasyBlade battery pack  
is designed for a quick and easy integration.”

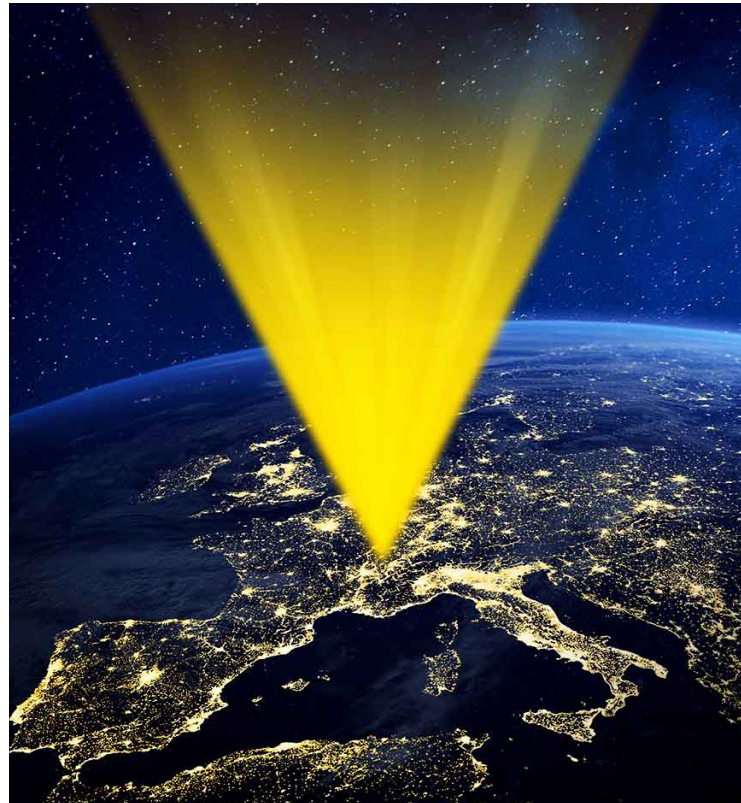


## Why standard battery packs reduce complexity and minimize costs

- Scalable solution up to 25 packs in parallel
- Intelligent battery management system for better performance and long service life
- Master-slave concept for continuously monitoring and adjusting factors like cell balancing and temperature
- Monitoring of battery data such as state of charge, state of health or cycle status via CAN protocol
- Developed in Germany and manufactured in Europe

# VARTA - Your reliable partner for your AGV projects

VARTA has been an innovation driver and battery manufacturer for more than 130 years and has more than 30 years of experience with lithium-ion batteries. The company produces more than 3 billion batteries per year and has been an important partner and supplier to the robotics market for more than 10 years. As an early adopter, VARTA has already supplied thousands of batteries to the AGV market. Its ready-to-use standard batteries enable an extremely short integration period and thus a fast time-to-market.



## Get in touch

Learn more about standard battery packs and ready-to-use solution for your AGV projects and how we support you.

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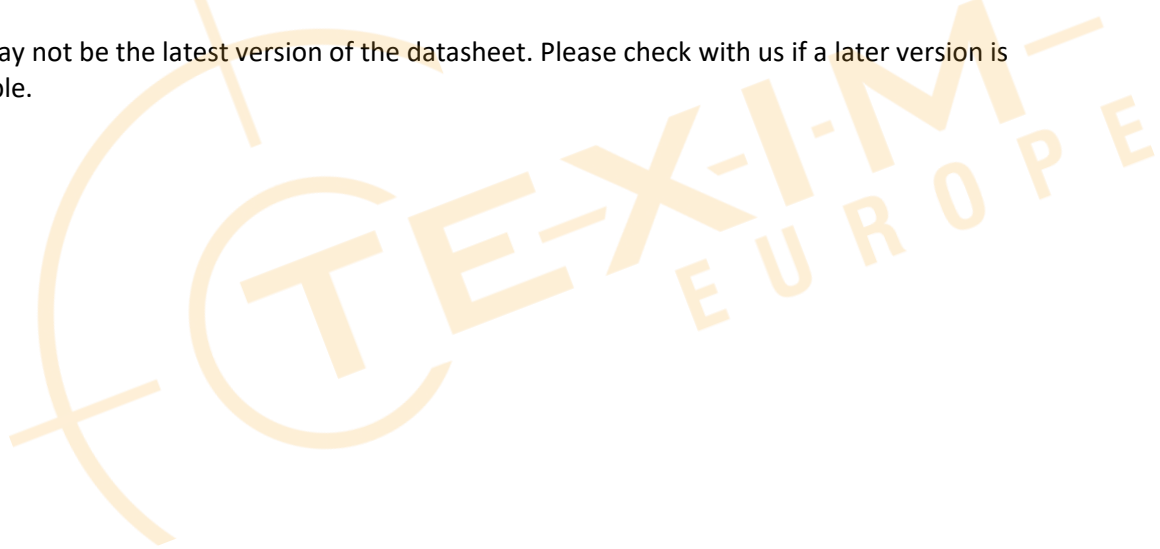
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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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