VASARA Energy

With the E series we introduce two innovative batteries, rolling systems for mobile use. Whether it's on a construction site, in a production hall, on a set, or in emergency shelters - these energy storage units provide a fast, low-emission, continuous power supply. In this way, diesel generators can be replaced and the flexibility of applications can be increased.

E3 & E5

+ mobile	Battery storage in sturdy, rollable metal container
+ strong	3 and 5 kilowatts continuous output power (300% peak power possible)
+ persevering	4.5 and 6.1 kWh battery capacity
+ flexible	chargeable with mains power, generator or solar panel
+ safe:	Advanced lithium iron phosphate ($LiFePO_4$) batteries in robust housing
+ intuitive:	Intuitive user interface shows most important real-time data

Target sectors:
- Defense & Security
- Construction & Craft
- Film & TV
- Event Management
- Emergency Medical Facilities
- Industry

Battery-based energy:
- 8 hours operation standard drill (750 W)
- 3 hours operation demolition hammer (2000 W)
- Ideal for power requirements when changing locations within a production hall, construction site, filming location

Thanks to the E series, all electrical devices and tools up to 3,000 and 5,000 watts can be easily operated. Using an E3 or E5 is ideal, especially when power is needed at different points in the same location. In this way, energy can be reliably supplied everywhere - even without a mains connection. Diesel generators thus become useless and can be replaced with a significantly quieter, emission-free battery storage system.

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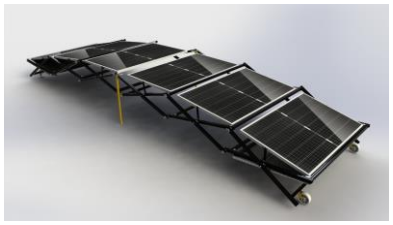
E3 & E5 – use cases



Mobile battery storage:

- For electrical appliances and tools up to 3,000 and 5,000 watts without connection to mains power
- Ideal for power requirements at different positions on a pick-up set
- Replaces diesel generators with the quieter, emission-free battery storage units

Example applications with ARVEY **E5**:

- Demolition hammer (2000 W) on construction site: 3 hours continuous operation
- Large cut-off machine (3500 W) in production hall: approx. 1 hour 40 minutes continuous operation
- Lighting setup with 2 floodlights (x200 W), 2 spotlights (x300 W) on film set: 6 hours continuous operation

Hybridization diesel generator:

- With existing diesel generator, cost savings possible through combination with E3 or E5
- Intelligent by-pass function gives priority to generator power consumption and stores surplus energy in battery

Uninterrupted power supply (UPS):

- For safety-critical applications, E-series solutions can be used as uninterruptible power supplies
- In case of mains failure, system control switches to battery operation within less than 8 milliseconds and guarantees power supply

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Uninterruptible power supply

In safety-critical applications, a permanent power supply for equipment is essential. Here, the solutions in the E range can be used as an uninterruptible power supply. If an E3 or E5 is connected between the load and the mains connection (via Pass mode), the system control switches to battery, an operation that is performed in just 7 milliseconds in the event of a network failure, thus guaranteeing the delivery of uninterrupted power..

Use cases:

+ Constructions
+ Movies & TV
+ Industry
+ Events
+ Emergency medical units
+ Defense & Security

Examples of applications with an E5:

• Demolition hammer (2000 W) on site: 3 hours of continuous operation

• Large cutting grinder (3500 W) in the production hall: approx. 1 hour 40 minutes continuous operation

• Lighting configuration with 2 projectors (200 W each), 2 spotlights (300 W each) on the set: 6 hours of continuous operation

Genset hybridization

If you already have a diesel generator, it's worth connecting it with an E3 or E5. For example, the intelligent bypass function allows the power of the generator to be used primarily at the ideal power and the excess energy is stored in the battery. This way, no energy is lost and costs and emissions can be saved.

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E3 and E5 in few words

Mobility - The battery case is sturdy, rollable metal container

Flexible - Charged via mains, generator or photovoltaic

Powerful - between 3 and 5 kilowatts continuously, output power of 230 volts (in the short term, maximum power of 300% for starting the power bridge).

Safe and long-lasting - Advanced lithium-iron phosphate, batteries (LiFePo4) are safe

Durable - between 4.4 and 6 kilowatt-hours battery capacity

Easy to use - Plug & Play - Intuitive interface, shows the user the most important information in real time

	E3	**E5**
Dimensions	62 x 42 x 58 cm	62 x 42 x 58 cm
Weight	78 kg	106 kg
Output power	3.000 W Peak 9.000 W	5.000 W Peak 15.000 W
Battery capacity	4.403 Wh	6.144 Wh
Outputs	230 V AC SCHUKO 2x 5 V DC USB 2x 12 V DC output jacks	2x 230 V AC SCHUKO 2x 5V DC USB 2x 12 V DC output jacks
Charging time (Empty to Fully charged)	4,5 hours	4,5 hours
max. Input Power Photovoltaic	1.600 W	3.200 W