

## E3 dc home energy storage system

E3/DC is one of the TOP brands in Germany for lithium-ion storage with integrated generation and provides extensive independence of supply. Another dimension of autonomy - A PV system, together with the appropriate E3/DC home power plant, is a secure investment for the future.

E3/DC developed the power storage system in the home power station for DC operation. The inverter, which is integrated into the home power station, only converts the solar energy supplied by the module field as direct current (DC) into alternating current (AC) when power is required in the home grid or when surplus power needs to be fed into the grid.

E3/DC was established as a spin-off from Wilhelm Karmann Osnabrück to an inverter ... The modularly expandable power storage system is available as S10 MINI and S10 E as well as S10 E COMPACT and S10 X COMPACT variant. In addition, the S10 E PRO reaches a new dimension. ... the time has come for a fully electric home without energy costs.

The complex energy management becomes comprehensible and tangible through the current and stored evaluations in the E3/DC customer portal: there users are able to visualise and check their energy balance on a daily, weekly, monthly and yearly basis, either at home or via a mobile device, and perhaps even identify potential for improvement.

In fact, E3/DC has spent years perfecting the necessary basic technology for this in the photovoltaic home power station. In a nutshell, this means being able to feed the car battery from your home systems and vice versa. Surplus energy produced by solar panels can be stored in your car battery and fed back into the home system when needed.

About E3/DC. Founded in Osnabrück in 2010, E3/DC GmbH is now the German market leader for grid-connected sources using local and emergency solar power supply. Its three-phase energy storage and charging systems for electric vehicles provide the ultimate in self-sufficiency and savings for private and commercial buildings, particularly in the ...

The usable storage capacities range from 11,7 to 29,2 kilowatt hours in the system, and up to 46,7 kilowatt hours with the external battery cabinet. The connectable PV output can also be doubled with the E3/DC additional solar inverter, so that systems with an output of maximum 35 kWp can be used by the home power station for a self supply.

E3/DC booth at Energy Storage Europe can be found at Hall 8b / B22. ... Professor of Electrochemical Energy Conversion and Storage Systems Engineering at RWTH Aachen University.

E3/DC systems are based exclusively on the company's own development know-how and quality management. The entire power electronics, the unique energy management system and the software are



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developed by E3/DC specialists. With - out exception, we manufacture the units and all electronic components in Germany - according to stringent industrial

A self-determined power supply without any compromises: the S10 E home power plant is the classic in the E3/DC product family - an intelligent all-in-one accumulator system for sector coupling of electricity, heat and mobility. ... The modularly expandable power storage has its own energy management system. learn more.

The biggest home power station from E3/DC is designed for full sector coupling in large residential buildings and commercial properties. PV systems up to 45 kWp are suitable for the S20 X PRO; particularly large solutions for using your own ...

The usable storage capacities range from 11,7 to 17,5 kilowatt hours in the system, and up to 35 kilowatt hours with the external battery cabinet. The connectable PV output can also be doubled with the E3/DC additional solar inverter, so that systems with an output of maximum 35 kWp can be used by the home power station for a self supply.

The E3/DC system uses Li-Ion (Typ 18650) cells from a leading Japanese supplier. The system consists of four battery modules and a safety module (battery management) and provides 5 kWh energy storage for one day. The 48V battery system has a galvanic isolation and is maximum safe.

Full sector coupling with more power and capacity: the S10 E PRO home power station systematically continues the development of E3/DC technology and paves the way for a fully self solar-electric supply, without ongoing energy costs. The ...

In the E3/DC portal, you can make individual settings such as weather forecast, charging prioritization or emergency power reserve and download documents such as operating and installation instructions.

Important information on spare/emergency power operation in the S10 home power stations. ... System warranty. 28 May 2024. The highest standards in terms of quality and technology - the E3/DC system warranty. ... Our flyer for ees Europe 2024 - Europe's largest and most international trade fair for batteries and energy storage systems ...

S10 X. A self-determined power supply without any compromises: the S10 X home power station is the allrounder in the E3/DC product family - an intelligent All In One storage system for sector coupling of electricity, heat and mobility.

With the proven E3/DC Wallbox, installation and networking have already been significantly simplified, the new Wallboxes multi connect and multi connect II also offer even better functionality for purely solar charging: Because both wallboxes can automatically switch between single-phase and three-phase charging, depending on the power currently available from the PV system.

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Home automation; Energy portal; Guidebook. Electricity Storages; References; Partners. Advantages & Services; Company. News; E3/DC Live; ... the E3/DC system warranty. Continue Reading. Brands of the century 2022. 21. December 2020 ... E3/DC is one of the TOP brands in Germany for lithium-ion storage with integrated generation and provides ...

E3/DC is a leading German brand in lithium-ion battery energy storage, known for its integrated systems that enhance energy independence. Originally focused on automotive energy storage, the company was established in 2010 as a spin-off from Wilhelm Karmann GmbH.

E3/DC E3/DC, a brand of HagerEnergy GmbH, develops and produces innovative solutions for energy storage, backup power supply and solar e-mobility. The all-in-one home power stations from E3/DC are designed for maximum self-sufficiency and support the CO2-saving use of solar energy in all sectors with intelligent energy management.

max. DC-Eingangsspannung (1000 V) value: value: min. MPP-Spannung (>250 V) value: value : max. DC-Strom pro String (12 A) value: value: Achtung! Die maximale Mehrleistung dieses bifazialen Moduls wird die den zulässigen Kurzschlussstrom übersteigen. Eine falsche Einschätzung der tatsächlichen Mehrleistung kann den Wechselrichter beschädigen.

German company E3/DC started series production and sales of its smart energy storage system for enabling self-consumption of PV generated electricity. Over 450 units have been produced and all are remote-serviceable and connected to the internet. ... E3/DC can produce storage systems in 5, 8 and 12 kW AC nominal three-phase power and has ...

The intelligent energy management of E3/DC controls the distribution of your PV power production economically according to the priorities self-consumption, storage and feed-in. In the E3/DC portal, you can control the energy management of your home power station and customize and manage it according to your needs.

Just like the larger models S10 X and S10 E PRO, the S10 SE home power station provides energy for all application purposes, i.e. it can also support small heat pumps and controls the E3/DC Wallbox to use solar power for heat and ...

The modular design of the power station S10 is the world's first system providing an integrated DC energy storage system with three phases, voltage for off-grid operation and current for on-grid ...

The modularly expandable storage system has its own energy management system. The solution for existing PV systems and for larger commercial systems. Flexible and individual Battery sizes can be selected modularly, from 2.2 till over 200 kWh

International Energy Storage Conference (IRES 2016) // Dr. A. Piepenbrink, E3/DC GmbH Paper EU



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Efficiency page 1 EU efficiency for home storage systems - a new and simple procedure Dr.-Ing Andreas Piepenbrink, E3/DC GmbH, Osnabrück, Germany Abstract - in this paper battery and solar inverter topologies combined with lithium ion home

The company has developed an energy storage system E3/DC S10 E PRO designed for commercial use. This system can provide an output power of up to 120kW, with a maximum capacity of 1.2MWh. ... E3/DC S10 E HOME is an energy storage system for home use that can provide an output power of up to 18kW and a maximum capacity of 39kWh. The system can ...

With E3/DC energy storage systems, users become more independent of the power grid, increasing their security of supply and cost transparency. ... One important technology for the future is bidirectional charging, where home energy storage can be used to charge the battery of an electric vehicle and vice versa. This means that the powerful ...

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