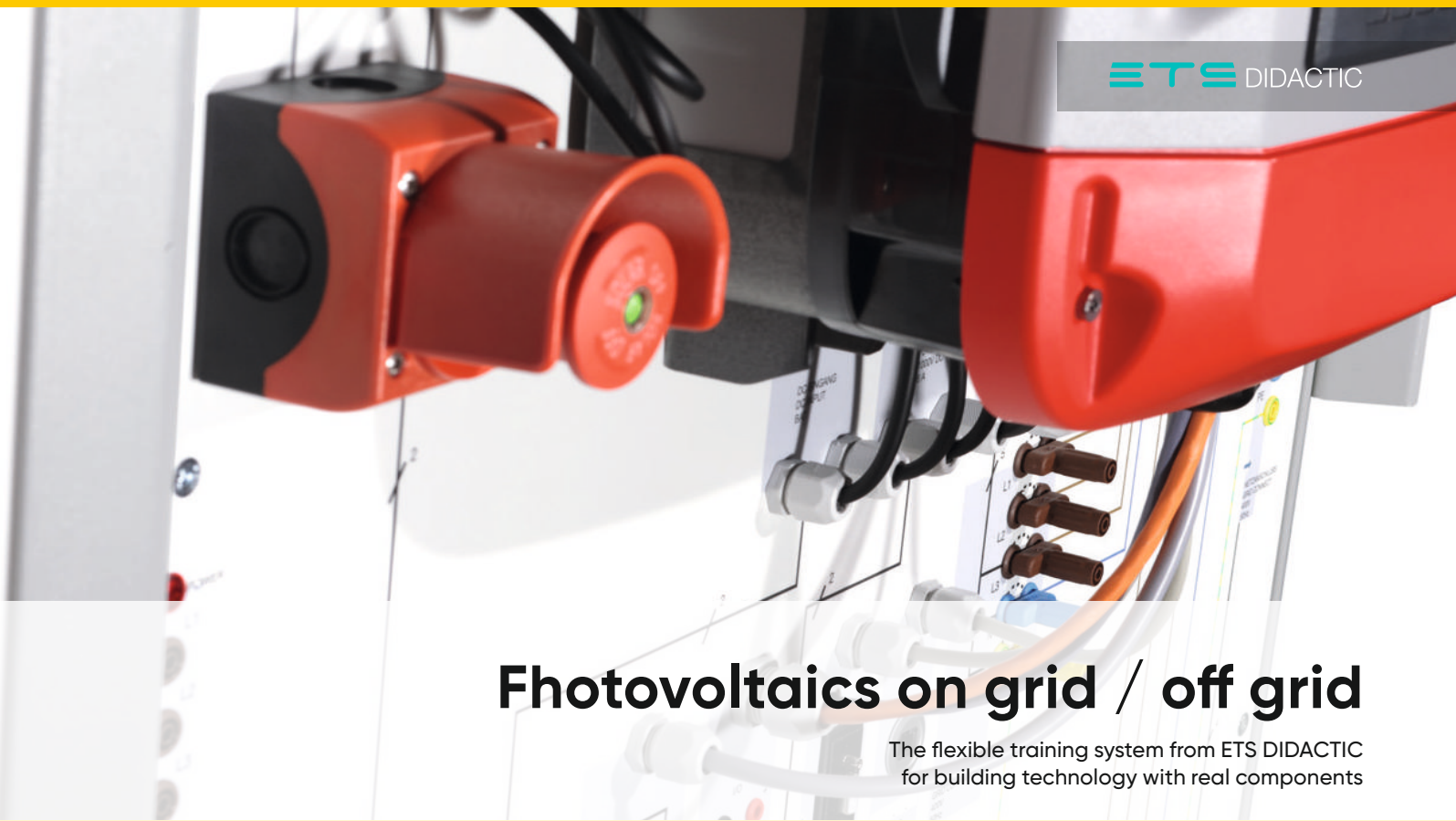




Trainer BST[®]

Fotovoltaico in rete e non in rete

BST[®] - Sistema flessibile con componentistica reale per la formazione sulla tecnologia impiantistica degli edifici



ETS DIDACTIC

Fotovoltaics on grid / off grid

The flexible training system from ETS DIDACTIC for building technology with real components



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Abintrax
DIDACT

mobile – practical – safe

AC-COUPLING



AC IN / OUT

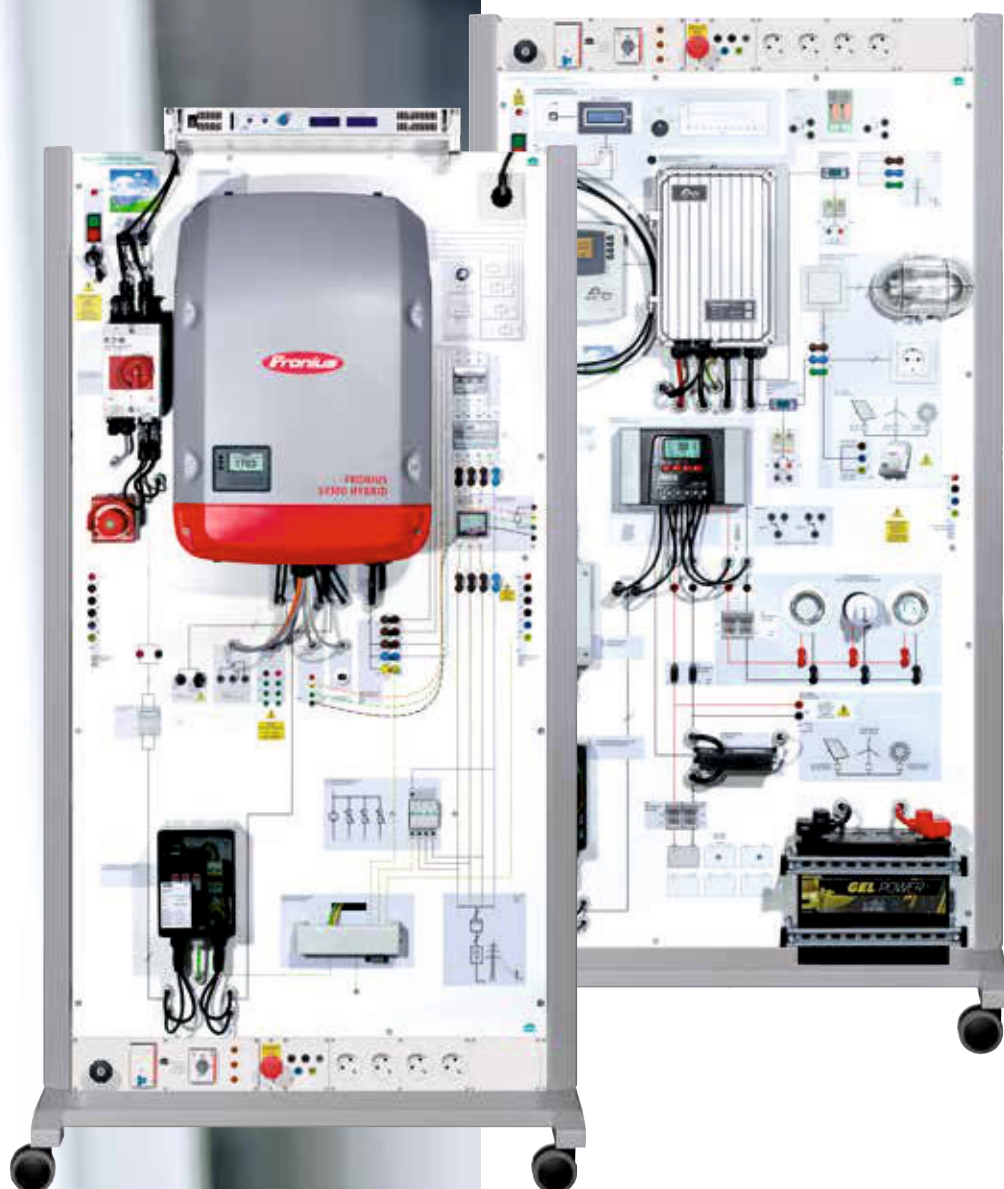


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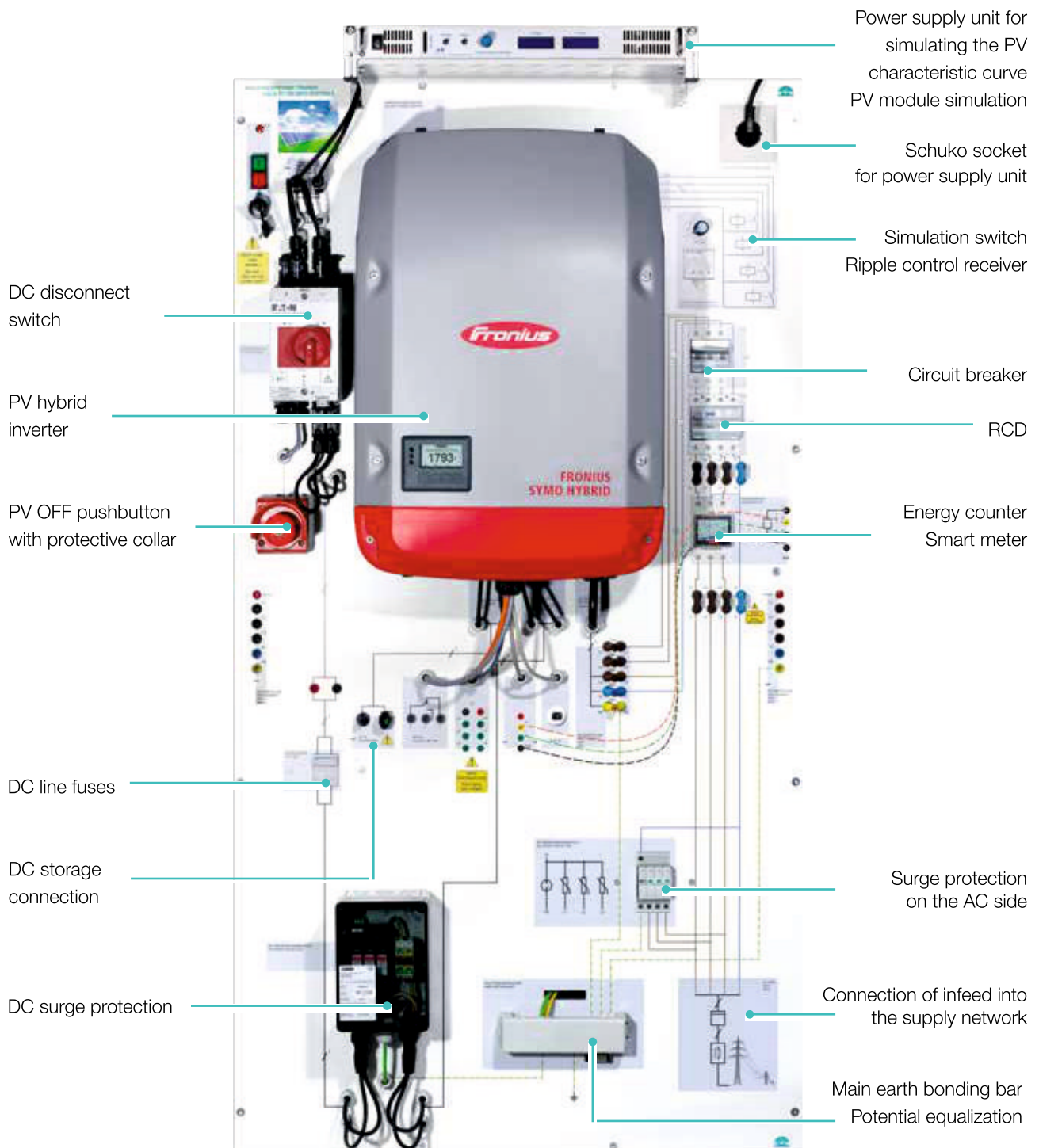


Page 4 Photovoltaics On Grid

6 Photovoltaics Off Grid



Photovoltaics On Grid Supply into a Power Grid / Hybrid



43528 BST® PV On Grid System

Target groups:

- Industrial engineers
- Electrical engineers specializing in energy and building technology
- Technical grammar schools, environmental technology
- Schools for master trade qualifications
- Higher education institutions
- Technical colleges

Technical features:

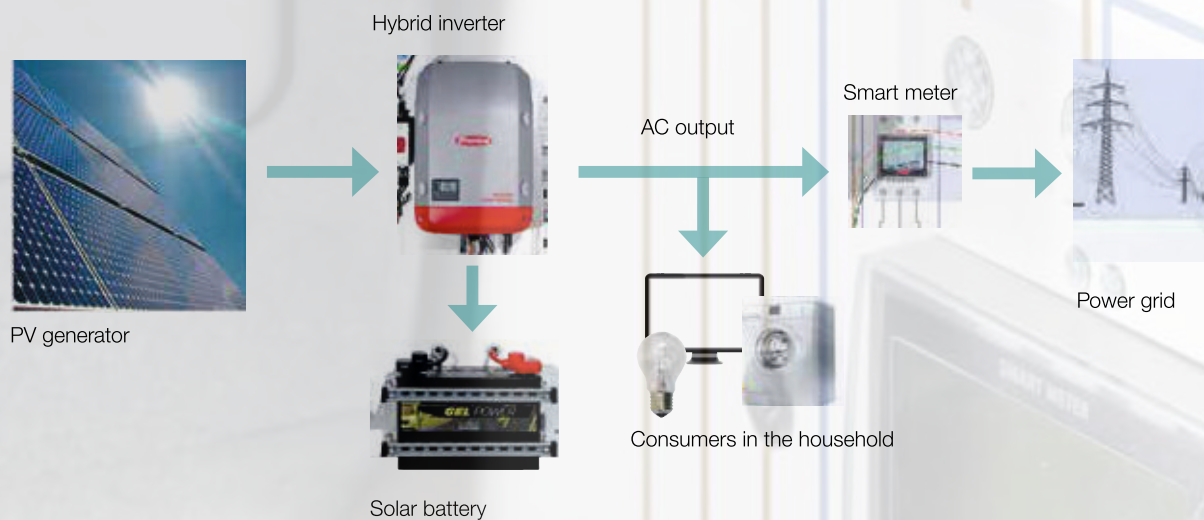
- To be operated on an existing PV generator, from a voltage of 150 V.
- To be operated on an existing PV generator, from a voltage of 150 V.
- Protection devices on the DC and AC side
- Integrated data logger for data acquisition and power control
- PV inverter according to the current standards (ENS, 50.2 Hz problem, etc.)

Learning objectives:

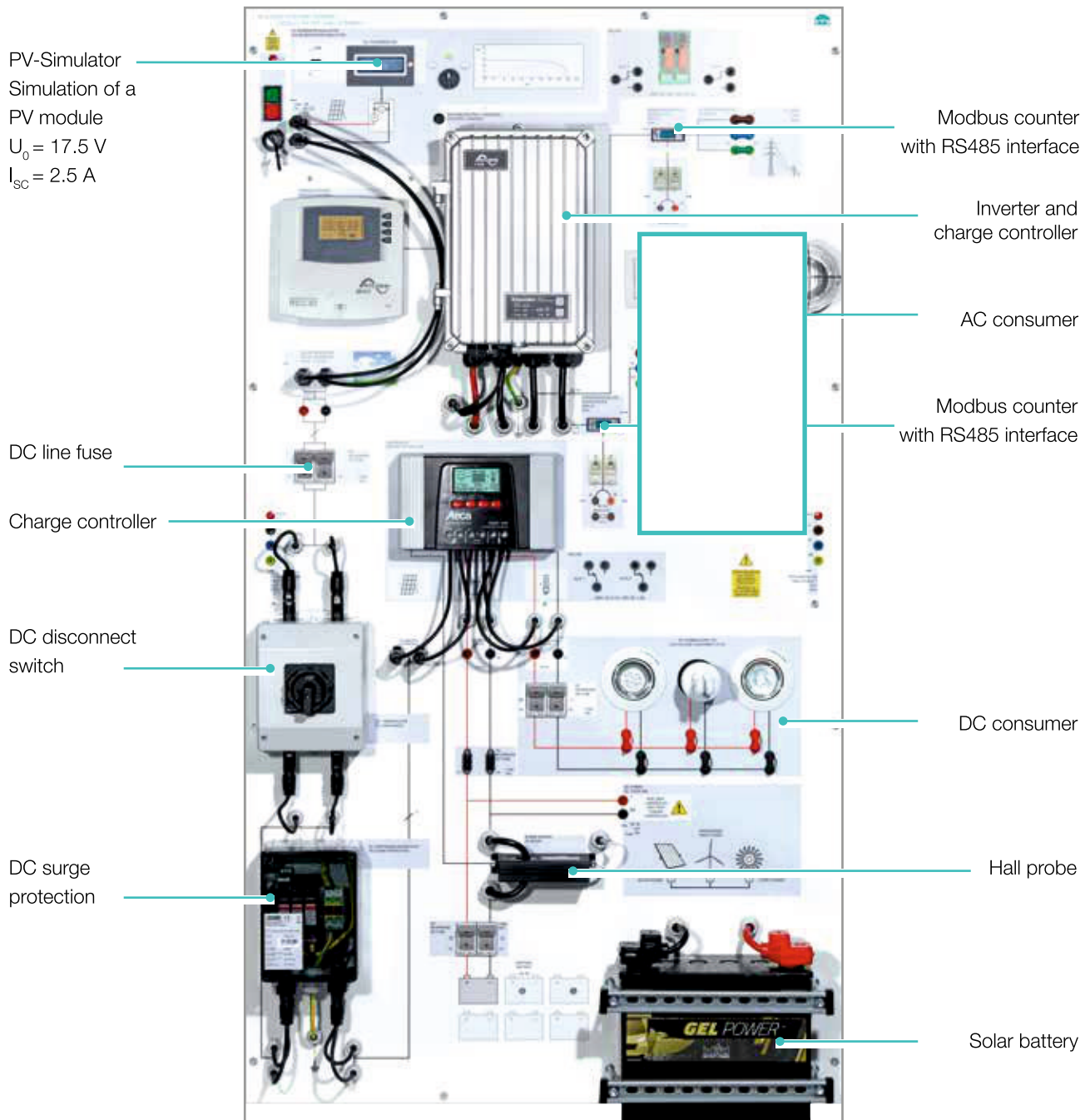
- Planning, implementing and commissioning photovoltaic (PV) plants
- Maintaining and modifying PV systems
- Measuring the energy generated in a PV plant
- Planning and commissioning data acquisition and telecontrol systems to implement legal requirements
- Power control of a PV plant in accordance with the feed-in regulation
- Self-consumption control
- Expanding PV systems with a storage system

Advantages:

- Integration of the PV plant into Smart Grid/Smart Home systems
- Practical application of abstract terms (Smart Grid, Smart Metering, Smart Home)
- Practical design with customary components
- Modbus IP interface in the inverter



Photovoltaics Off Grid Stand-alone / DC Hybrid / AC Hybrid Systems



43529 BST® PV Off Grid System

Target groups:

- Electrical engineers specializing in energy and building technology
- Electrical engineers specializing in energy and building technology
- Higher education institutions
- Technical colleges
- Schools for master trade qualifications

Technical features:

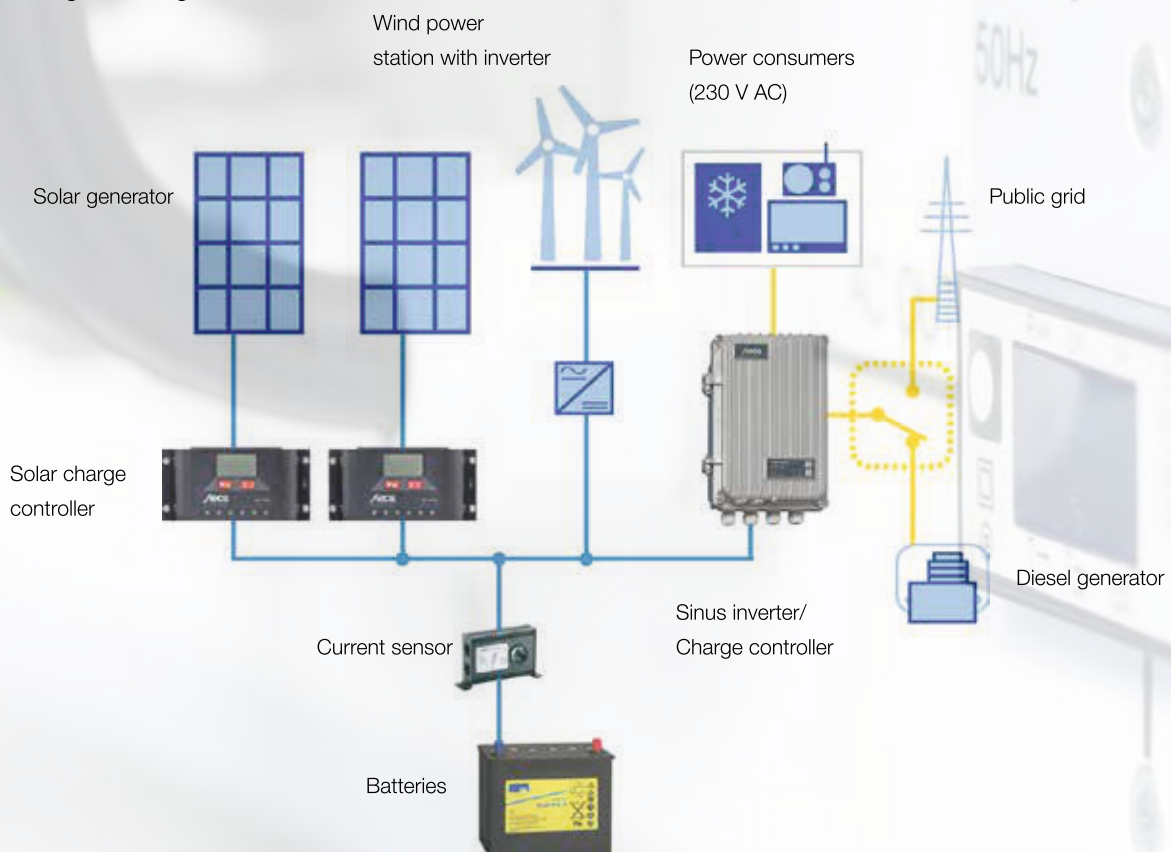
- Various operating modes possible (hybrid operation: stand-alone / DC hybrid / AC hybrid)
- Simulation of a PV module
- Switching between mains and solar operation
- Connection of existing PV modules
- Integration into a Smart Home system
- Smart grid through connectable counters

Learning objectives:

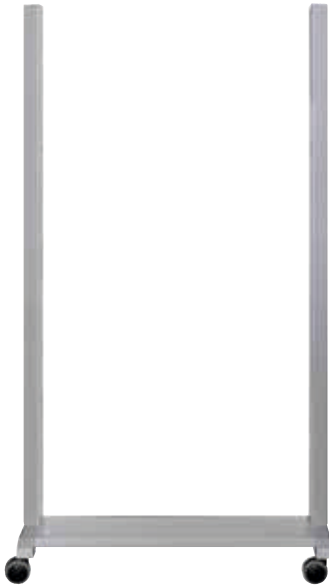
- Configuring the components of PV systems
- Installation and integration of decentralized energy supply and energy conversion systems
- Installation and connection of all necessary power supply and communication units
- Installation and connection of all necessary lightning and surge protection measures
- Maintenance and service of PV systems

Advantages:

- Learning objectives integrated into an overall concept
- Better understanding of the interrelationships
- Use of commercially available components

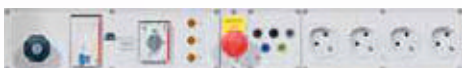


Your BST® - Modular | Individual | Mobile



43501
BST® Training stand

- Mobile stand, completely mounted
 - 4 big swivel castors for heavy weights, two of which with brake
 - Profile columns on the sides allow integrated cable duct, column door with magnetic lock
 - Cable and accessory holders in a profile column
- ☐ Dimensions: 1800 x 920 x 750 mm (hwd)

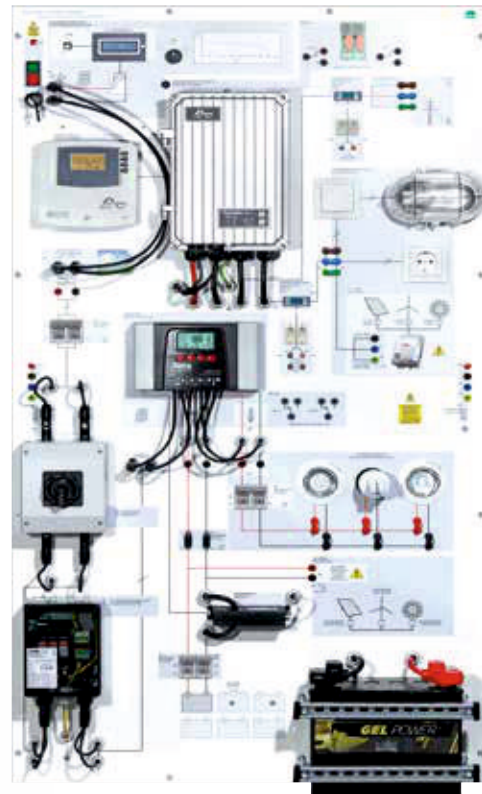


43502 Energy supply channel

Energy supply channel for the BST® can be mounted flexibly at the top or bottom



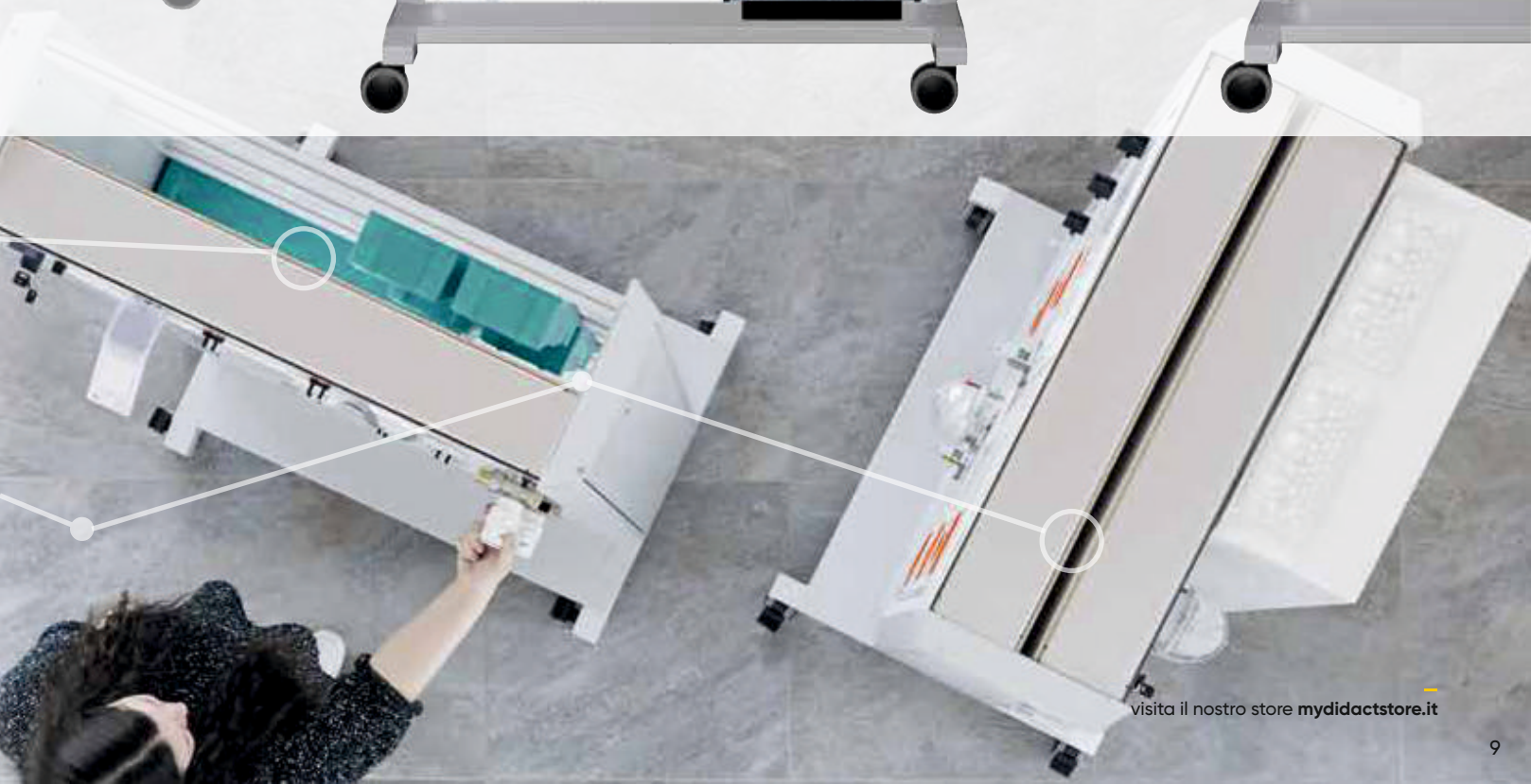
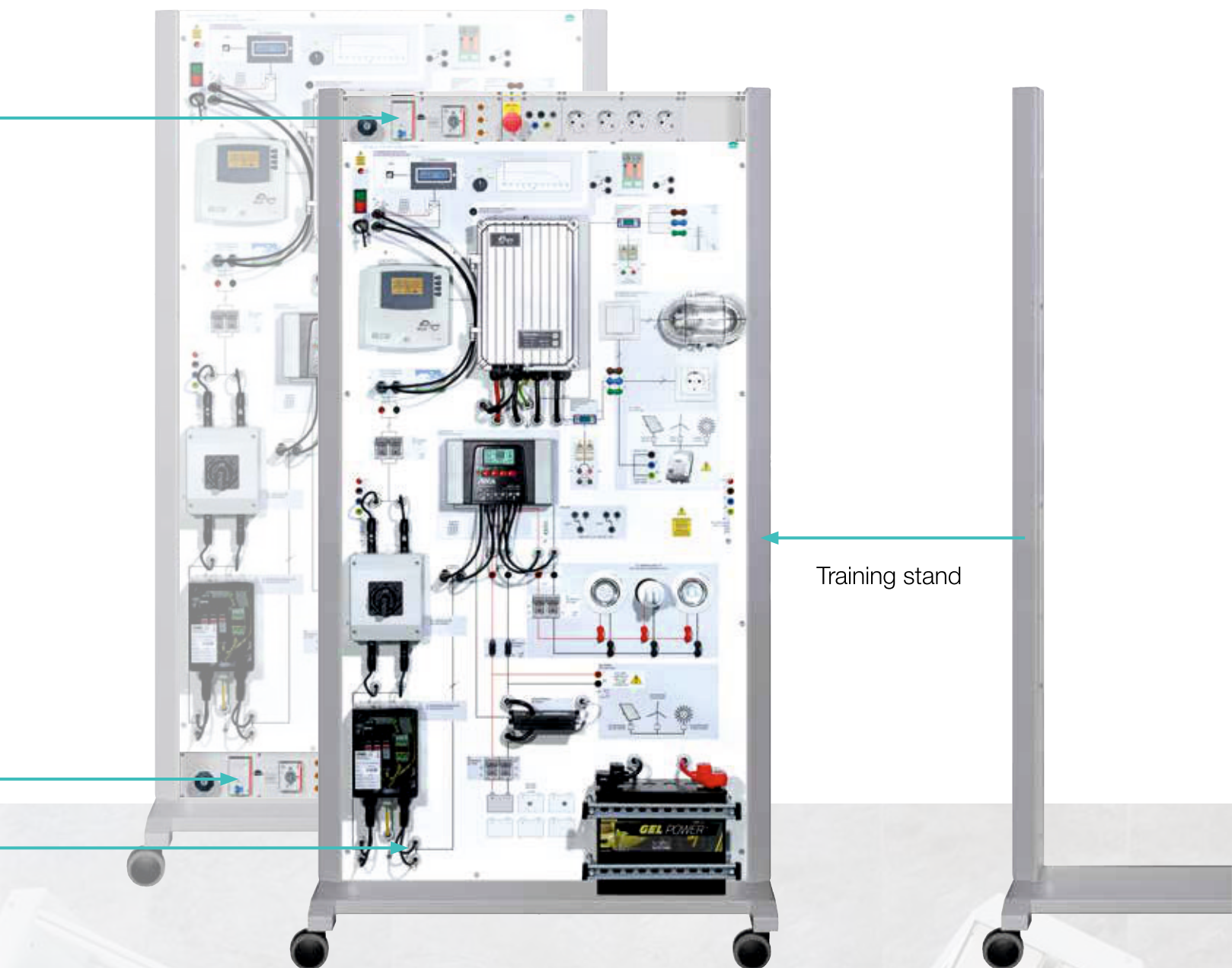
Energy supply channel can be mounted at the top or at the bottom



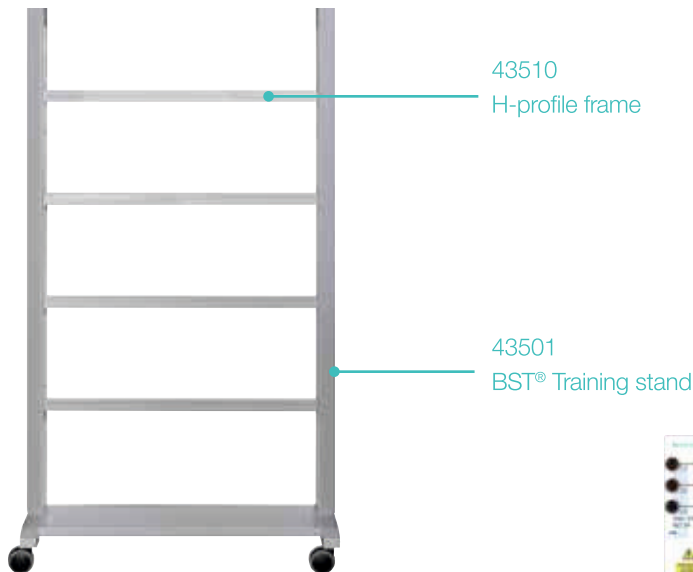
BST® Building Systems Trainer



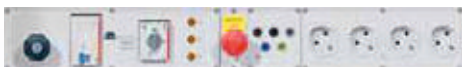
BST®
Training stand
can be equipped
on both sides!



Your Experiments - Modular | Individual | Mobile

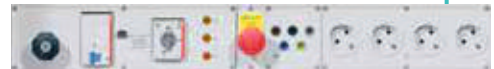


- 4-line DIN A4
- for integration in BST® training stands
- w = 820 mm, d = 18 mm, h = 1320 mm
- Holds one size C (532 mm) and B (266 mm) gauge plate per profile frame line
- incl. assembly kit for self-assembly



43502 Energy supply channel

Energy supply channel for the BST®
can be mounted flexibly at the top or bottom



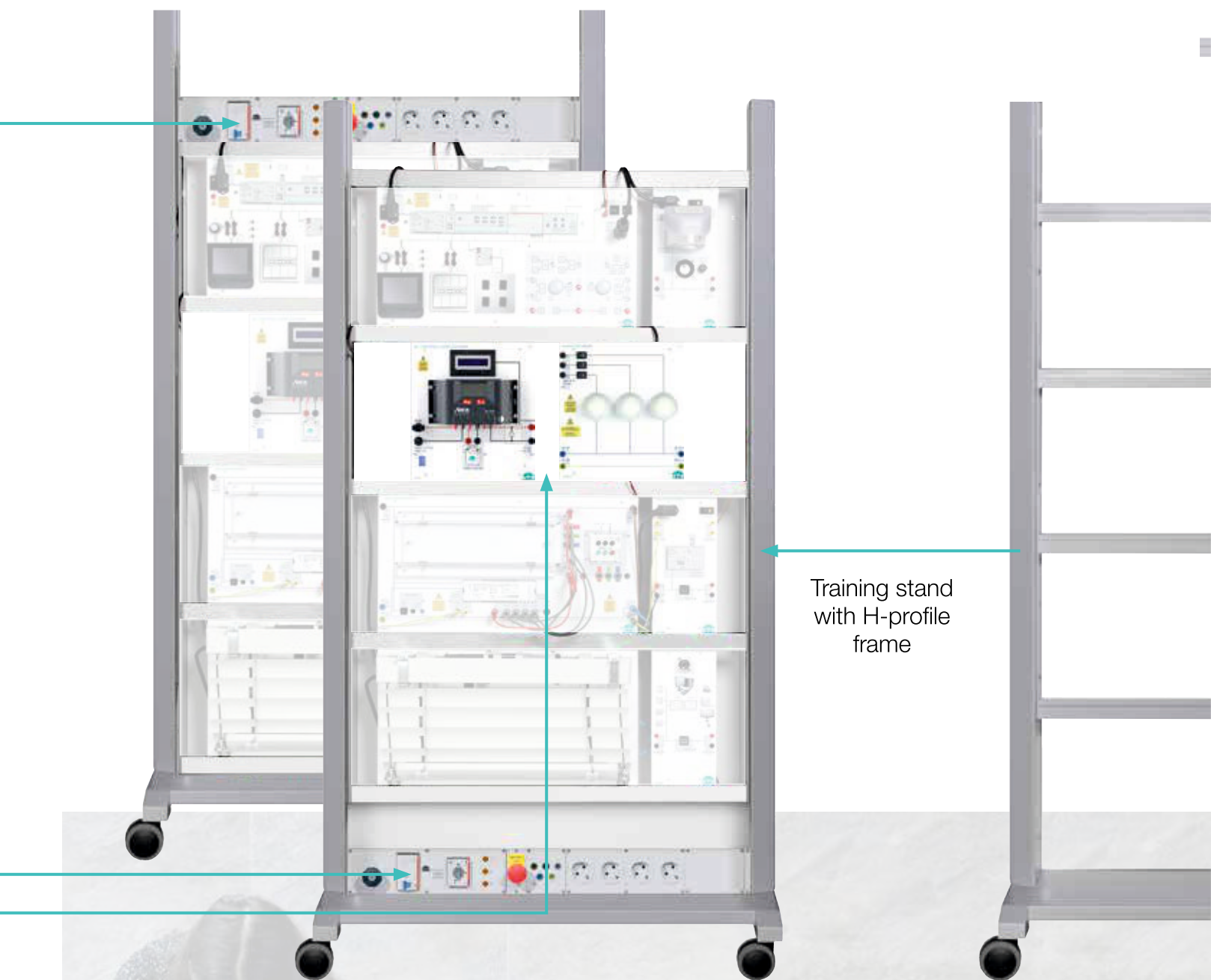
Energy supply channel
can be mounted at the top or
at the bottom



Laboratory
equipment



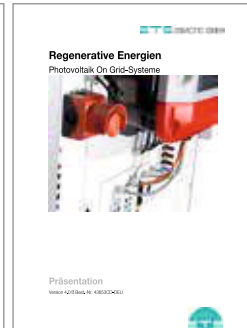
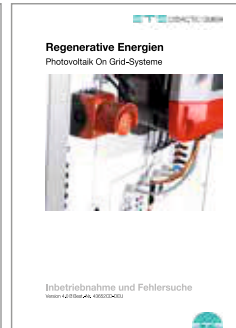
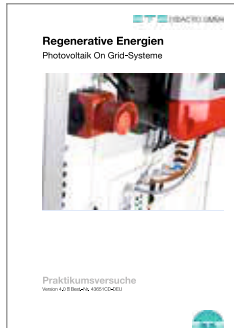
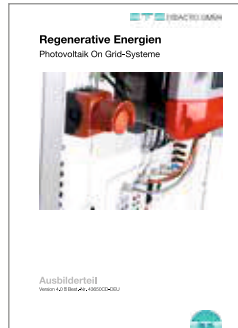
BST®
Training stand
can be equipped
on both sides!



Courseware



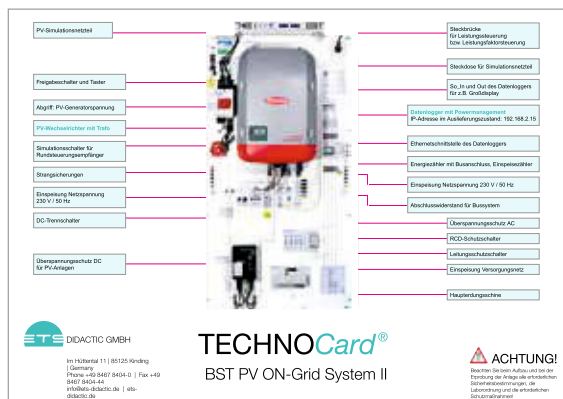
Printed and digital



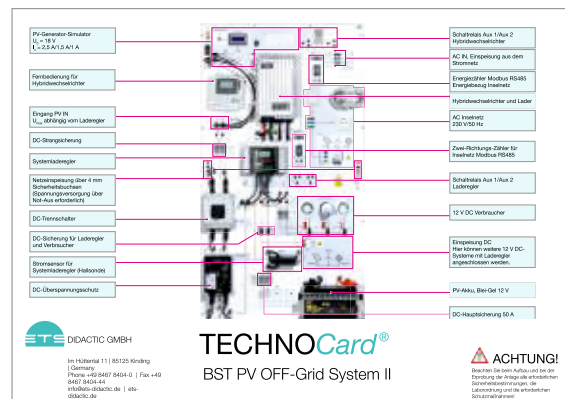
Photovoltaics On Grid System

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> › Grid-connected PV system › Components › Detailed component description › PV generator › DC disconnect switch › MPP tracker › DC/AC converter, inverter › Network and plant protection | <ul style="list-style-type: none"> › Control, regulation and monitoring of PV systems › PV system concepts › System concept with phase inverter › System concept with central inverter › System concept with module inverter › Design of PV systems | <ul style="list-style-type: none"> › Power sizing › Voltage rating › Determination of phases › Rating and design of DC lines › Protection potential equalization, grounding, lightning and surge protection › Mounting frame › Additional remarks › Device description › Customer inquiry |
|--|---|--|

TECHNOCard®



10



11

No.	Designation	Order No.	No.	Designation	Order No.
1	Set of ETS ring binders	91903	7	Renewable energies Off Grid Practical Experiments	43656CD-ENG
2	Renewable energies On Grid Instructor's Manual incl. CD-ROM	43650CD-ENG	8	Renewable energies Off Grid Commissioning Troubleshooting	43657CD-ENG
3	Renewable energies On Grid Practical Experiments	43651CD-ENG	9	Renewable energies Off Grid Presentation Aids	43658CD-ENG
4	Renewable energies On Grid Commissioning Troubleshooting	43652CD-ENG	10	TECHNOCard® BST PV On Grid System II	43654-ENG
5	Renewable energies On Grid Presentation Aids	43653CD-ENG	11	TECHNOCard® BST PV Off Grid System II	43659-ENG
6	Renewable energies Off Grid Instructor's Manual incl. CD-ROM	43655CD-ENG			



Printed and digital

Photovoltaics Off Grid system

- › General
- › Stand-alone system
- › Hybrid system
- › Components
- › Charge controller
- › PV generator
- › Batteries
- › Lead-acid batteries with liquid electrolytes
- › Lead gel batteries
- › Stationary OPzS or OPzV batteries
- › Consumer
- › Inverter
- › Trapezoidal inverter
- › Sinusoidal inverter
- › Combination inverter (hybrid)
- › Device description
- › Overview BST (block diagram)
- › PV stand-alone system with storage battery

FURTHER INFORMATION

From one classroom to the other - with the mobile training system BST® from ETS

Scan the QR code for more information on the product or a more detailed offer.

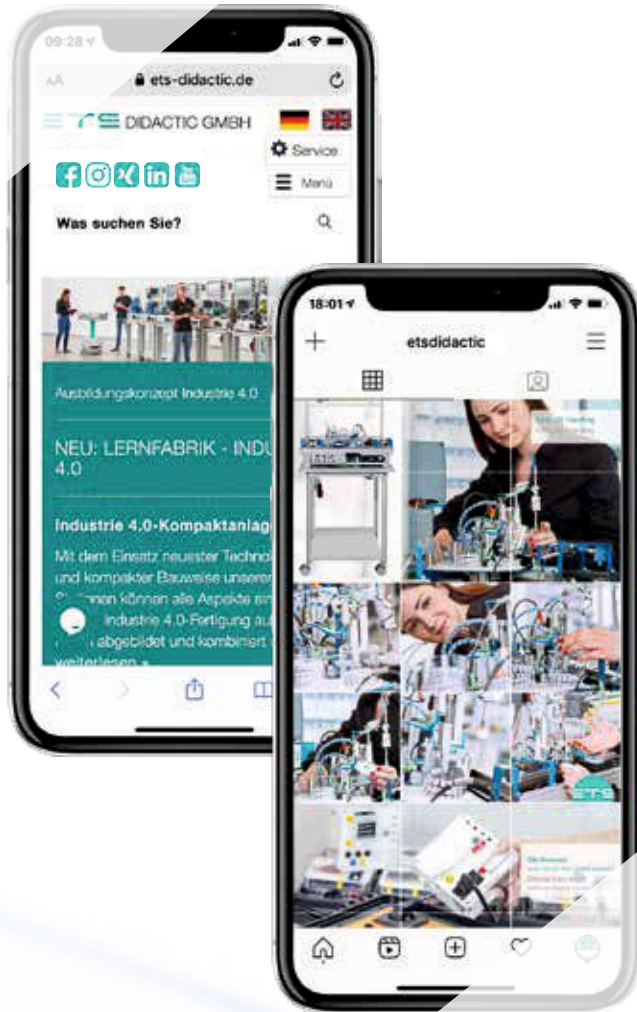


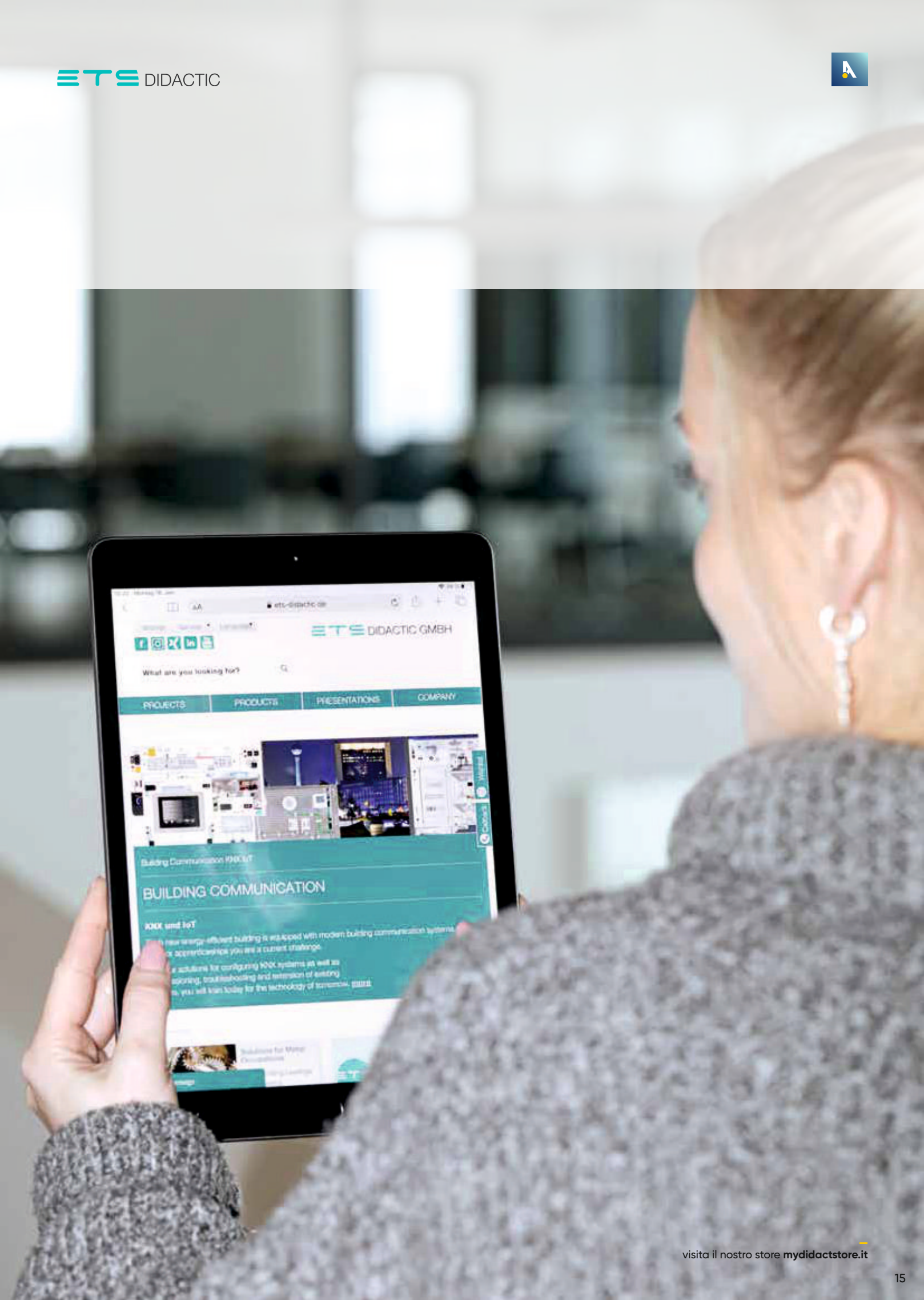
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information





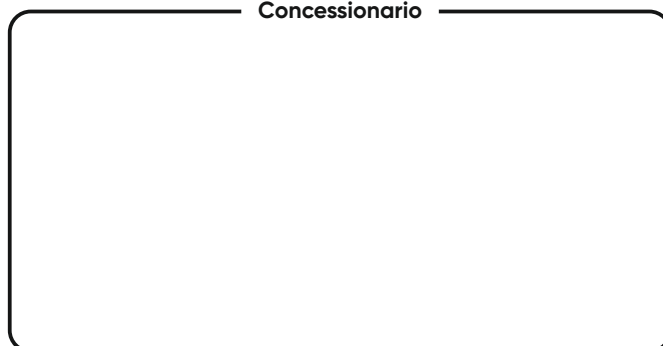


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