Power Engineering
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DNV Certified Company

ELWE® Technik

innovative
future oriented
high-performance

Education is the future

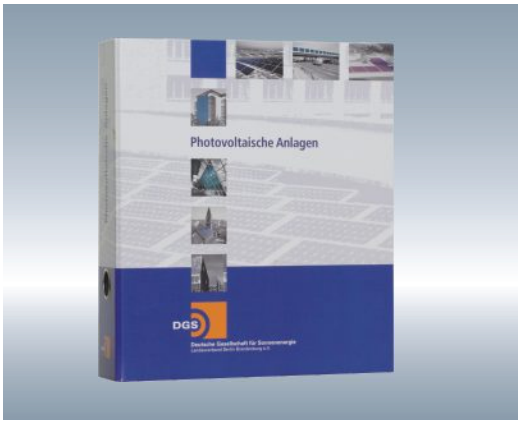
Photovoltaic System - PV1

Mobile training and experimental photovoltaic equipment with mains feed

- Modular unit with:
  - PV generator
  - Safety installations
  - AC converter and equipment monitoring
  - Artificial light source (optional)

- For application in training and further education in the area of regenerative energy technology
  - in schools providing vocational education and Chambers of technical trade
  - within professionally oriented education in technical colleges and training centres
  - in colleges conducting experimental research and evaluation of related technical data
  - in institutes for vocational and further education in technical trades

- Flexible application
  - in workshops
  - in classrooms or outside



- Easy handling
  - Mobile experimental stand
  - Equipment dimensions have been taken into account for mobility within buildings (doors, lifts etc.)
  - Simple, robust component assembly

- Basic system components
  - Commonly available components in general practical use
  - Individual components are replaceable
  - Extendable

Technical and colour modifications reserved

Training systems for future oriented vocational training and further education in all fields of technology

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Module general view

- PV generator
  - mobile and rotatable
  - adjustable angle (in 15° steps)
  - adjustable positioning
  - practical subframe/mounting system

- Safety device
  - Power Inverter and system control (assembling by the user / trainee)

  - Collection and analysis of the operational data of the inverter and the parameters of the power supply system

- Artificial lighting source (optional)
  - For the operation of the photo-voltaic experimental stand where natural lighting is not available (classrooms or by unsuitable weather)

Accessories

- Tool set and assembling device incl.
- Experimental manual
- Measuring instruments
- Directives on photo voltaic from the DGS (Deutsche Gesellschaft für Sonnenenergie e.V.)

Subframe /mounting system
angle adjustable (in 15° steps)

Educational objective

- Learning the function of a photovoltaic system for mains feed-in
- Learning the function of the components (PV module, AC converter)
- Learning the diagramatic circuitry of a solar cell
- Setting up a photovoltaic system for feeding into the mains
- Getting to know the assembly of the equipment, the function and circuit symbols of individual parts of the system
- Choice of components and their applications from circuit diagrams in the presence of a realistic system
- Setting the order, connection and fixture of the components
- Application of tools provided for the installation of the equipment
- Putting the system into operation
- Application of the measuring instruments
- Power assessment

Mobile and rotatable
platform / mounting system for the PV generator module

Conception and scientific advice

We can offer you a variety of different equipment and we would be pleased to send you an individual offer. Please let us know your requirements. If you want we can also send one of our skilled consultants to you.

Mobile Photovoltaic System with Mains Feed - PV1

Basic equipment	**Order No.**
Mobile Photovoltaic System with Mains Feed - PV1	8-0117400-100-12-0

Consisting of:

PV generator, safety installations and experimental manual

Extension	
PV generator	9-2417310-100-12-0
Artificial lighting source (optional)	8-2417320-100-10-0
Experimental instructions/manual	8-5317000-000-10-0

Accessories	
Tool set and assembling device incl.	9-2417330-000-10-0
Measuring instruments	9-2417320-000-10-0
Directives on photovoltaic from the DGS (Deutsche Gesellschaft für Sonnenenergie e.V.)	8-5317100-001-10-0

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