



PASSION FOR POWER.

A company and its products



www.hensel-electric.de



ENYCASE®



ENYBOARD



ENYSTAR



ENYMOD



ENYFIT



ENYSUN

High-quality products

for the reliable and safe distribution of energy up to degree of protection IP 67 wherever environmental influences, dust and humidity require a particularly sophisticated installation technology.

International

Founded in 1931, Hensel today represents a company group which is active worldwide: in addition to the parent company in Lennestadt, Germany, subsidiaries and representatives in important foreign markets ensure a continually strong international presence.

Market leader

The innovative product range of modern installation and distribution board systems has made Hensel into one of the market leaders in the tapping, fusing and distribution of electrical energy in the low voltage sector.



Family company with tradition

Hensel has been a family company for more than 80 years. It is now in its second generation and run by the managing partner, Felix G. Hensel together with a team of competent experts across all levels of the company. Responsible and determined company management have contributed to high employee motivation and identification.

Competent

The high-quality Hensel products are processed in particular by the electrical trade, industry and in electrical installations. Wherever environmental influences, dust and humidity require a particularly sophisticated installation technology, Hensel with its innovative solutions enables the reliable and safe distribution of energy up to degree of protection IP 67.

Areas of application:

- Companies involved in the processing of metal, wood and paper, cement factories
- Agriculture and farming
- Water treatment and sewage plants, power stations and telecommunication
- Banks and insurance buildings
- Leisure and commercial centres, cold-storage depots
- Hotel and cinema complexes
- Hospitals and clinics
- Schools and universities
- Stadiums and sports centres
- Petrol stations and pipelines
- Traffic infrastructure in harbours and airports, railway and underground stations, tunnel and road construction
- Mining
- Marine
- Residential and non-residential buildings

With dialogue for success

Local presence

Market proximity is a decisive factor in the success of HENSEL. With subsidiaries and competent partners in the most important export markets and technical offices in Germany, we guarantee local presence and short communication routes.

Our worldwide business relationships thus create a network of competence – with the focal point in Germany, Europe and Asia. Our customers profit from maximum efficiency and optimum advice on site.



Communication with customers

Hensel offers a practical range of services and products which enables partners and users to have many opportunities for differentiation as well as decisive competitive benefits. In dialogue with our customers, we work out precise and tailor-made solutions on the highest technical level.

With regard to EN and IEC standards, innovations are developed which make Hensel successful on an international level.

 made in **GERMANY**
since 1931

Quality for the future

With a continually high standard of quality, we guarantee our partners a decisive lead in the market: all the operating areas of Hensel meet the requirements of DIN EN ISO 9001:2008. Also in the future we will continue to invest in production, research and training of our employees in order to extend the high level of quality of our products.

Tested quality

- Durability of plastics materials
- Short-circuit withstand capability
- Fire behaviour
- Limits of temperature rise
- Functional test
- IP degree of protection (dust and water protection)
- Impact resistance
- UV resistance
- Halogen-free, silicone-free
- Corrosion-proof





DK Cable junction boxes

1.5 up to 240 mm², IP 54-69

- Solid, modern and user friendly design, based on more than 80 years of experience
- Halogen-free, silicone-free
- Accessories included in the box
- Vibration resistant terminals
- Maintenance-free
- Boxes for extra applications

The new Cable junction boxes - The evolution of the original



Level 1:
weatherproof -
for outdoor
installation



Level 2:
waterproof



Level 3:
for intrinsic fire
resistance



DK Cable junction boxes are VDE tested and certified in accordance with the international standard IEC 60670-22

Standard applications

suitable for normal environment and/or protected outdoor installation



- Degree of protection: **IP 54, IP 55, IP 65**
- Burning behaviour: Glow wire test IEC 60 695-2-11: **750 °C**, flame-retardant, self-extinguishing
- Toxic behaviour: halogen-free, silicone-free



Cable entry via metric knockouts
 from 1.5 up to 240 mm²
IP 65/IP 55
 cable entry via grommets or glands



Box walls without knockouts, can be drilled individually for customized requirements
 from 1.5 up to 50 mm²
IP 65/IP 55



Cable entry via metric knockouts and stepped grommets STM
 from 1.5 up to 50 mm²
IP 55



Cable entry via metric knockouts for armoured cables or conduit entries
 from 1.5 up to 35 mm²
IP 65



Cable entry via elastic membranes and integrated M20 thread
 up to 4 mm²
IP 55



Cable entry via grommets, cable can be inserted from the front
 from 1.5 up to 4 mm²
IP 54



Cable entry via elastic membranes
 from 1.5 up to 6 mm²
IP 55

Special applications

suitable for normal environment and/or protected outdoor installation



- Degree of protection: **IP 54, IP 55, IP 65**
- Burning behaviour: Glow wire test IEC 60 695-2-11: **750 °C**, flame-retardant, self-extinguishing
- Toxic behaviour: halogen-free, silicone-free



Cable entry via elastic membranes from the rear and by box walls and lid for clip-on attachment
 from 1.5 up to 2.5 mm²
IP 55



With cable retention for cable tie up to 6.5 mm width
Cable entry via integrated elastic membranes
IP 55



With terminal blocks for aluminium- (Alu) and copper (Cu) conductors
Cable entry via metric knockouts
 from 1.5 up to 240 mm²
IP 65/55



For security lighting circuits with red lid
Cable entry via metric knockouts
 from 1.5 up to 4 mm²
IP 55/IP 65



For equipotential bonding conductors
Cable entry via removable grommets
 from 1.5 up to 25 mm²
IP 54



With main line branch terminals
cable entry via metric knockouts
 from 6 up to 35 mm²
IP 55



With terminal blocks for aluminium- (Alu) and copper conductors (Cu)
cable entry via metric knockouts
 from 1.5 up to 4 mm²
IP 65/IP 55

Special applications
suitable for outdoor installation and harsh environment



- **Degree of protection: IP 66 / IP 67 / IP 69**
- temporary submersion up to 1 meter, max. 15 minutes
- "Weatherproof" Cable junction boxes comply with regulatory restrictions for buildings with requirements regarding the structural fire protection!
- Material: PC (Polycarbonate)
- "Weatherproof" Cable junction boxes comply with regulatory restrictions for buildings with requirements regarding the structural fire protection!
- halogen-free, silicone-free: low toxicity, low fume development
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- Closes quickly by a quarter turn – closed position is visible
- Burning behaviour: Glow-wire test 960 °C according to IEC 60695-2-11: flame-retardant, self-extinguishing
- VDE approved, DNV GL - Certificate-No.: TAE00000EE, Russian Maritime Register of Shipping Documentation-No.: 250-A-1180-108795

Level 1:
For outdoor installation



Special applications

Cable junction boxes for encapsulating, for ground installation without live loads or in risk of condensation formation and ingress of water



Level 2:
»Waterproof«

- „waterproof“
- The ingress of water and formation of condensation are completely prevented
- for ground installation without live loads or in risk of condensation formation and ingress of liquids
- installation under water without chemical additives up to a depth of 1 meter possible in the long term
- in case of re-installation or testing the sealing compound can be removed easily
- Material: PC-GFS (polycarbonate)
- halogen-free, silicon-free
- in accordance with DIN VDE V 0606-22-100



Which applications require waterproof connections?

- Pump shafts
- Ground-level installation ducts in outdoor areas
- Flood areas close to rivers
- „Unprotected outdoor installations which are in close proximity to the ground.

Example - landscaping applications“

Special applications

tested for intrinsic fire resistance



Level 3:
for intrinsic fire resistance

E30 up to E90

- For safety circuits, which must remain operational for a sufficient time during exposure to fire in accordance with the national regulations governing fire protection requirements for cable installations
- Degree of protection: **IP 66**
- Material: high-grade thermoplastic or powder-coated sheet steel colour: orange, RAL 2003, halogen-free
- Connecting terminal made from ceramic with resistance to high temperatures
- Made and tested according to IEC 60 670-22



Material: Thermoplastic

From 1.5 up to 16 mm²
cable entry via included grommets
IP 65 / IP 66
Mechanical load: IK 09 (10 Joule)
Protection against electric shock: insulated

Tested for intrinsic fire resistance:



Cable glands
degree of protection **IP 66**
AKMF M 20 - M 40

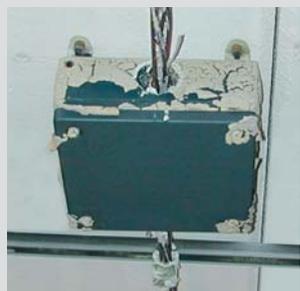


Grommets
degree of protection **IP 65**
EDKF M 32 - M 40



Material: Sheet steel, powder-coated

From 0.5 up to 16 mm²
cable entry via mounted grommets
IP 66
Mechanical load: IK 10 (20 Joule)
Protection against electric shock: earthed
No additional fire load, no toxic or corrosive emissions



Cable junction box with connected cables after testing.



KV Small distribution boards

3 - 54 modules, IP 54-65

- With FIXCONNECT® technology for PE/N
- Screws made of stainless steel V2A
- With original user-friendly Hensel design
- Empty enclosures and KV extra circuit breaker boxes for special applications
- Protection class: II
- in accordance with IEC 60 439-3

KV PC "weatherproof"

for outdoor installation
(harsh environment
and/or outdoor)



Standard applications

suitable for indoor installations -
 normal environment and/or protected
 outdoor installation



- Degree of protection: **IP 54, IP 65**
- Burning behaviour: Glow wire test IEC 60 695-2-11:
750 °C, flame-retardant, self-extinguishing
- Toxic behaviour: halogen-free, silicone-free

Special applications

„weatherproof“, for outdoor installation
 (harsh environment and/or outdoor)



- Degree of protection: **IP 65**
- Burning behaviour: Glow wire test IEC 60 695-2-11:
960 °C, flame-retardant, self-extinguishing
- Toxic behaviour: halogen-free, silicone-free



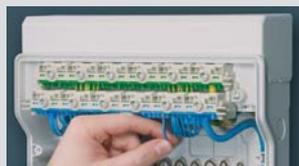
Cable entry via integrated, elastic membranes.



Cable/conduit entry via metric knockouts.



Conduit entry via integrated elastic membranes.



FIXCONNECT® plug-in terminal technology for PE and N



Plenty of space for installation and wiring:
 Easy access to built-in equipment by lower side walls.



KG empty boxes:
 Cable entry via metric knock outs.



Integrated compartment to store accessories -
 everything has its proper place.



Captive lid screws made of stainless steel V2A.



12 to 54 modules:
 attached blanking strips for DIN rail equipment openings.



Plenty of room for labelling and marking.



Door hinge interchangeable fast and easy from left to right.



KV »Extra« Circuit breaker boxes with additional space with DIN rail for electrical devices not to be manually actuated.



Fit for the standard IEC 60 364-4-41:
 KV Small-type distribution boards with up to four disconnectable N-potentials in one bar enable the installation of RCDs without additional efforts or accessories.

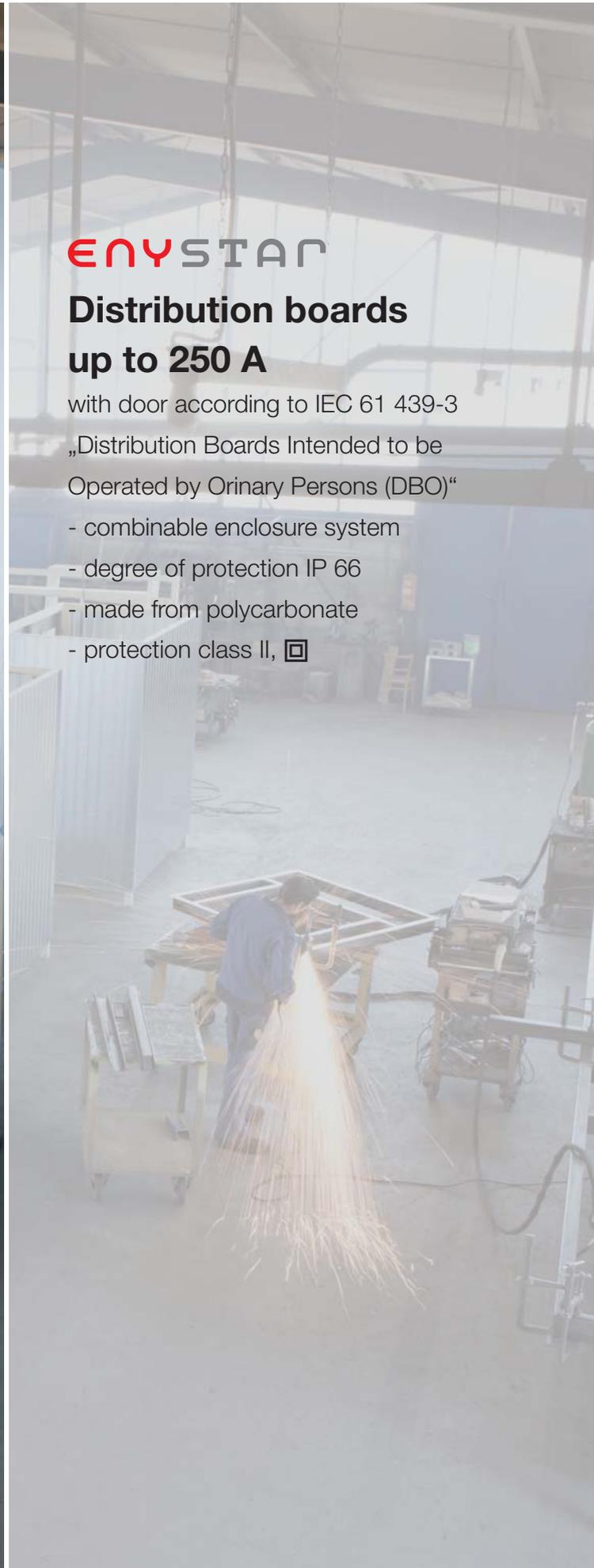


Distribution boards up to 250 A

with door according to IEC 61 439-3

„Distribution Boards Intended to be
Operated by Ordinary Persons (DBO)“

- combinable enclosure system
- degree of protection IP 66
- made from polycarbonate
- protection class II, 



Application area:
suitable for protected outdoor
installation and harsh environment



ENYSTAR distribution boards have a proven track in harsh environment, above all in commercial properties in industrial environments and demanding ambient conditions, as well as protected in outdoor installations. However the climatic influences and effects on the equipment are to be considered.



960 °C



- degree of protection: **IP 66**
- Material: Polycarbonate
- Burning behaviour: Glow wire test **960 °C** in accordance with IEC 60 695-2-11 UL Subject 94: V-2, flame-retardant, self-extinguishing

- Chemical resistance
resistance against acid 10% and alkaline 10%, petrol and mineral oil
- Insulated enclosures (Protection class II)
- Impact strength: IK 08 (5 Joule)
- Temperature resistance PC: -40 °C / + 120 °C
- UV resistance:
UV resistance according to IEC 61439-1 the material is examined for UV resistance
- Protection against foreign solid objects and direct contact: dust proof **IP 66**
- Protection against ingress of water with harmful effects: protection against water **IP 66**
- Toxic behaviour: silicone- and halogen-free
- Corrosion resistance:
resistance to weather influences such as humidity, temperature, wind



Combinable enclosure system with doors

- for indoor and protected outdoor installation
- dust-proof and protected against water (IP 66)
- protection class II
- colour: grey, RAL 7035



Doors

- all enclosure sizes with door
- transparent and opaque
- door hinge changeable
- sealable
- locking facilities: lockable, door fasteners for tool and hand operation
- operation of the devices behind the door protected with covers
- no overhangig handles



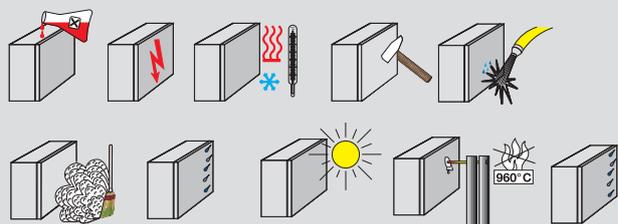
Quick Assembly

- closed or open enclosure walls, which can fast and easily be closed with closing plate sets
- integrated gaskets
- safe connectors



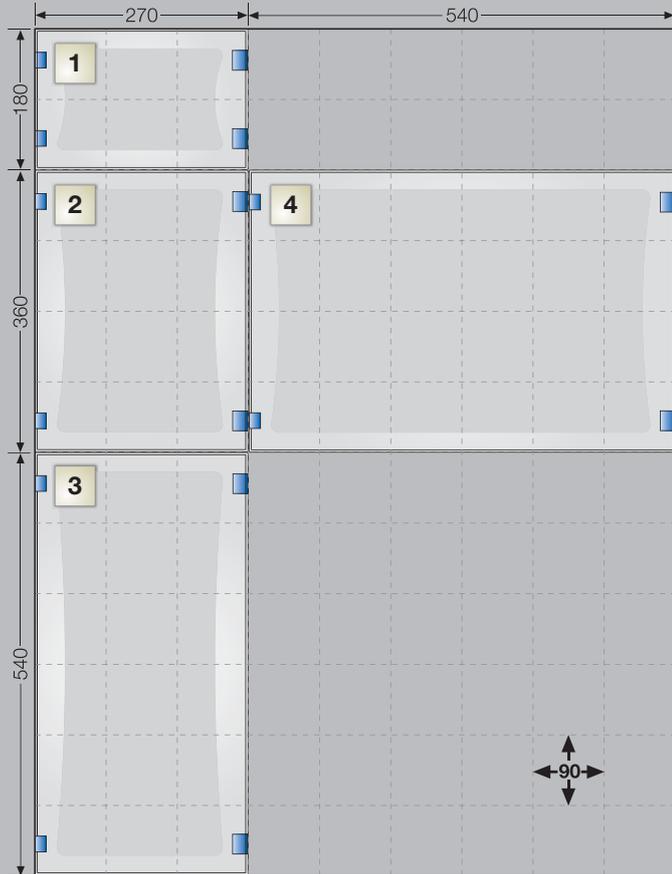
Multikey

Besides the standard locking system for tool-operation with slot screwdriver ENYSTAR doors can be operated as well with triangle 8 mm, square lock 8 mm and double-bit. All four locking systems are operated by a Multkey.



Distribution board with door

- modular structure of enclosures in grid of 90 mm
- 4 enclosure sizes: 270 x 180 mm, 270 x 360 mm, 270 x 540 mm and 540 x 360 mm
- for the assembly of distribution boards up to 250 A
- all enclosures can also be used as single enclosures



Enclosure depth



Extension frame
 for extending installation depths by 50 mm

Combinable enclosures with door and closing plates

- 4 box sizes: 276 x 186 mm, 276 x 366 mm, 276 x 546 mm and 546 x 366 mm



Empty enclosures and circuit breaker boxes additionally with closing plate sets for closing enclosure walls

Enclosure walls closed via closing plates

Combinable distribution boards with door



Empty enclosures door locking with **hand operation**
 Operation and access also by unskilled persons

Empty enclosures door locking with **tool operation**
 Access and operation only by skilled persons

Circuit breaker boxes

Combinable enclosures with door and closing plates



Empty enclosures and circuit breaker boxes with **closing plates**
 Flanges to be ordered separately



Hand-operated locking facilities in areas, where electrotechnical unskilled persons operate equipment



Locking option with key prevents unauthorized access



Multkey for door locking systems:
 Standard locking system for tool-operation with slot screwdriver and triangle 8 mm, optional square lock 8 mm and double-bit.


ENYSTAR®
Connection Box

The ENYSTAR Connection Box allows a simple and fast installation of devices that must be operated externally. Such as plug devices, pushbuttons, switches or also touch panels.

The new Connection Box is installed via safe plug connectors.

The ENYSTAR Connection Box is available in different designs and standard equipments.

Can be combined and extended in all directions

Because of the increasing requirements, flexibility is essential in the electrical installation.

ENYSTAR enclosures can be combined and arranged freely in

order to adapt the system flexibly to the individual requirements in site:

Combination next to each other or one above the other.

Large doors for all box sizes allow a simple accessibility of the electrical functions.

Combination of enclosures in **vertical** direction.



Combination of enclosures in **horizontal** direction.



2



1


Distribution boards intended to be operated by ordinary persons

Example 1:

Distribution board with 72 modules (6 x 12 x 18 mm) built-up of 2 x FP 1318 with closing plates

Example 2:

Distribution board with 125 A feeding, 36 modules (3 x 12 x 18 mm) and a terminal box for PE and N

IEC 61439-3

Decide for the optimal functioning of a switchgear assembly under operating conditions is the correct rating of the interface characteristics of the assembly. For this purpose, the assembly is considered as BLACK-BOX with four interface characteristics which shall ensure compatibility with the ratings of the circuits to which it is connected and the installation conditions and shall be declared by the assembly manufacturer using the criteria.

Installation and ambient conditions



Operation and maintenance

BLACK-BOX with 4 interfaces


Combinable enclosure system, insulation-enclosed, total insulated, degree of protection IP 66,

for the assembly of ENYSTAR distribution boards up to 250 A intended to be operated by ordinary persons (DBO) in accordance with IEC 61439-3

The requirements for all installed electrical functions within the assembly have been proved compliance with the applicable requirements of IEC 61439-3. I_{nc} and RDF must be specified in the documentation.



Circuits and consumers



Connection to the electrical network



Mi Power distribution boards up to 630 A

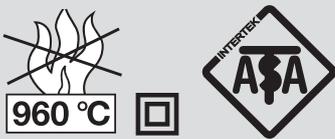
- combinable enclosure system
- degree of protection IP 65
- made from polycarbonate
- protection class II, 
- in accordance with IEC 61439-2

Design fast, simply, more clever
www.ENYGUIDE.eu

Application area:
suitable for outdoor installation and harsh environment



Mi distribution boards have a proven track in harsh environment, above all in commercial properties in industrial environments and demanding ambient conditions, as well as in outdoor installations. However the climatic influences and effects on the equipment are to be considered.



- degree of protection: **IP 65**
- Material: Polycarbonate
- Burning behaviour:
Glow wire test **960 °C** in accordance with IEC 60 695-2-11
UL Subject 94: V-2, flame-retardant, self-extinguishing
- Chemical resistance
resistance against acid 10% and alkaline 10%, petrol and mineral oil
- Insulated enclosures (Protection class II)
- Impact strength: IK 08 (5 Joule)
- Temperature resistance PC: -40 °C / + 120 °C
- UV resistance:
UV resistance according to IEC 61439-1
the material is examined for UV resistance
- Protection against foreign solid objects and direct contact:
dust proof **IP 65**
- Protection against ingress of water with harmful effects:
protection against water **IP 65**
- Toxic behaviour: silicone- and halogen-free
- Corrosion resistance:
resistance to weather influences such as humidity, temperature, wind



Insulation-enclosed, totally insulated, modular box system for the assembly of type-tested low-voltage switchgear assemblies up to 630 A in accordance with EN 61 439-2.



Box system:
Functional boxes with standardised kits up to 630 A, e.g. empty boxes, circuit-breaker boxes, boxes with switch components up to 630 A and meter boxes, etc.

All boxes can either be used as a single box or can be combined in a grid of 150 mm for larger distribution boards up to 630 A.



Connection Box for mounting on box walls 300 mm for the installation of devices that must be operated externally, such as plugs, pushbuttons and switches.

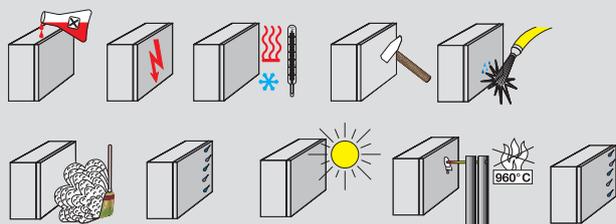
Applicable within the Mi-system of Hensel.



Mi Single empty boxes with hinged lids for the installation of device via DIN rails or mounting plates.

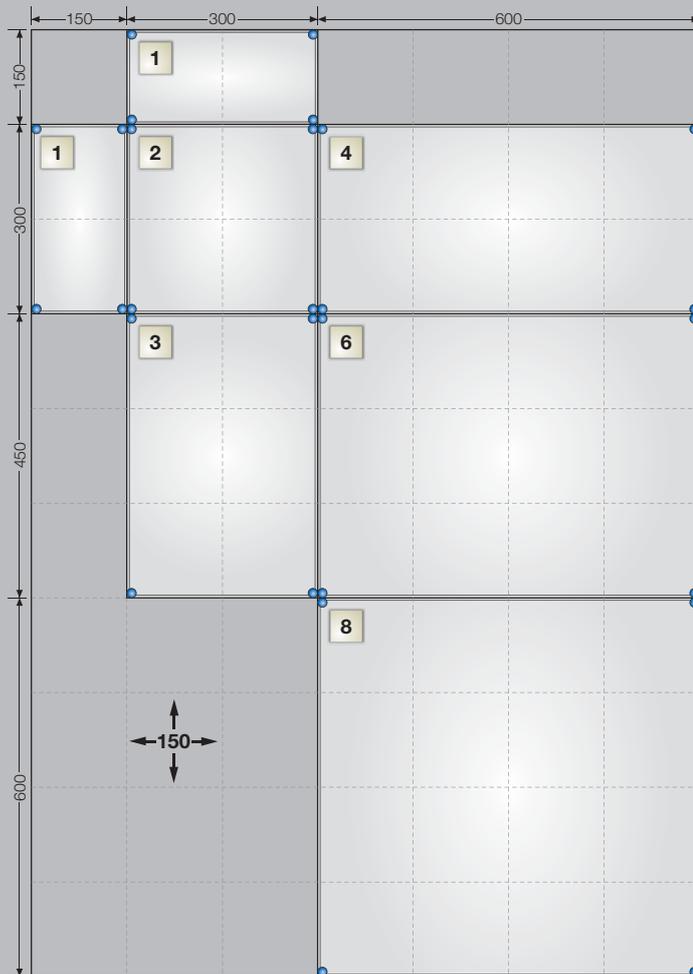


Available with all required accessories like extension frames, covers, flanges for cable entry, spacers, mounting plates, DIN rails, busbars, supports, etc.



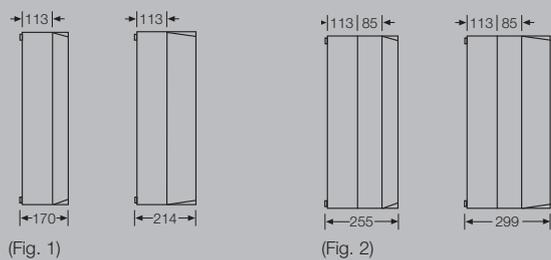
Mi Power distribution boards

- modular enclosure system in grid of 150 mm
- 6 enclosure sizes: 150 x 300 mm, 300 x 300 mm, 450 x 300 mm, 600 x 300 mm, 600 x 450 mm and 600 x 600 mm
- for the assembly of type-tested low-voltage switchgear assemblies up to 630 A
- Enclosures can be used as well as single boxes.



Different enclosure depths

allow the installation of equipment of different heights (Fig. 1).
 With an extension frame the depth of the enclosure sizes 4 and 8 can be extended by 85 mm (Fig. 2).



Overview product range

- Mi Empty box
- Empty boxes **with hinged lids**
- Circuit breaker boxes
- Mi KWH meter box
- screw-type fuse box Diazed/Neozed
- Mi HRC fuse boxes, sizes HRC 00, HRC 1, HRC 2, HRC 3, 3-pole
- Mi HRC fuse boxes on busbars, Mi HRC fuse boxes with fuse switch disconnecter with busbars, Mi busbar boxes up to 630 A
- Mi isolator boxes, Mi MCCB circuit-breaker boxes with thermal and magnetic release up to 630 A

Combinable and extendable in all directions

Application examples

Transparent lids enable a control from the outside without opening the enclosures.

The few basic modules and standard parts of the system allow the assembling from small up to very large distribution boards using the same equipment.

The modular system allows a flexible adaptation to the local available space.

The polycarbonate UV- and corrosion-proof material and the degree of protection IP 65 allow an indoor and outdoor installation.



IEC 61439-2

Decisive for the optimal functioning of a switch-gear assembly under operating conditions is the correct rating of the interface characteristics of the assembly. For this purpose, the assembly is considered as **BLACK-BOX** with four interface characteristics which shall ensure compatibility with the ratings of the circuits to which it is connected and the installation conditions and shall be declared by the assembly manufacturer using the criteria.



Installation and ambient conditions



Operation and maintainance

BLACK-BOX with 4 interfaces

Combinable enclosure system, insulation-enclosed, total insulated, degree of protection IP 65,

for the assembly of power switchgear and control-gear assemblies (PSC) up to 630 A in accordance with IEC 61439-2.

The requirements for all installed electrical functions within the assembly have been proved compliance with the applicable requirements of IEC 61439-2.

I_{nc} and RDF must be specified in the documentation.



Circuits and consumers



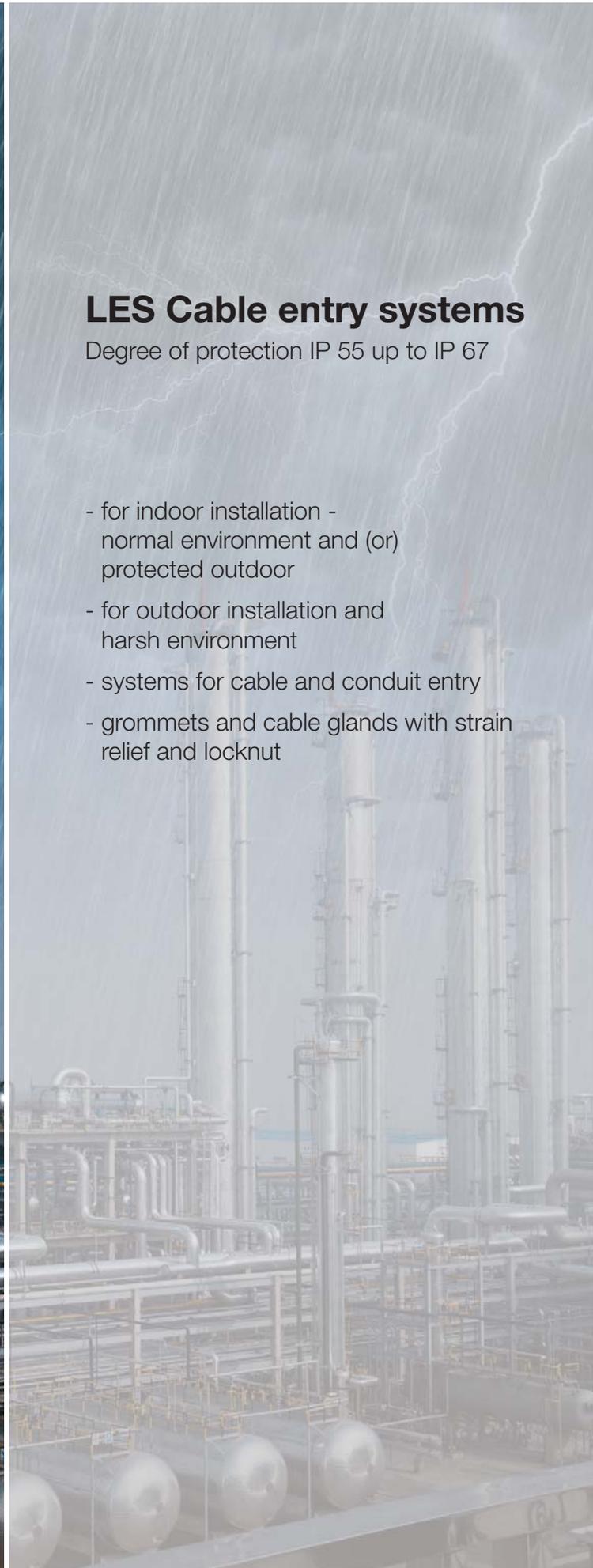
Connection to the electrical network



LES Cable entry systems

Degree of protection IP 55 up to IP 67

- for indoor installation - normal environment and (or) protected outdoor
- for outdoor installation and harsh environment
- systems for cable and conduit entry
- grommets and cable glands with strain relief and locknut



For indoor installation
normal environment and (or) protected outdoor installation
 glow wire test IEC 60 695-2-11 750 °C



Grommets
 degree of protection IP 55
 ESM
 M 16 - M 40



Stepped grommets
 degree of protection IP 55
 STM
 M 16 - M 40



Grommets
 degree of protection IP 65
 EDK
 M 16 - M 40



Grommets for conduits
 degree of protection IP 65
 EDR
 M 16 - M 40



Stepped grommets
 degree of protection IP 65
 KST 70
 Ø 30-72 mm

For functional integrity in the event of fire



Grommets
 degree of protection IP 65
 EDKF
 M 32 - M 40



Cable glands
 degree of protection IP 66
 AKMF M 20 - M 40

For outdoor installation
and harsh environment
 with strain relief and locknut



Cable glands
 degree of protection IP 65
 glow wire test IEC 60 695-2-11 750 °C
 AKM
 M 12 - M 63



Cable glands
 degree of protection IP 66
 glow wire test IEC 60 695-2-11 960 °C
 ASM
 M 12 - M 63



Cable glands
 degree of protection IP 66 / IP 67
 glow wire test IEC 60 695-2-11 960 °C
 ASS
 M 12 - M 63



Climate gland for metric knockouts
 degree of protection IP 66/67
 glow wire test IEC 60 695-2-11 960 °C
 KBM
 M 12 - M 40



Climate gland for metric knockouts
 degree of protection IP 66/67
 glow wire test IEC 60 695-2-11 960 °C
 KBS
 M 12 - M 40

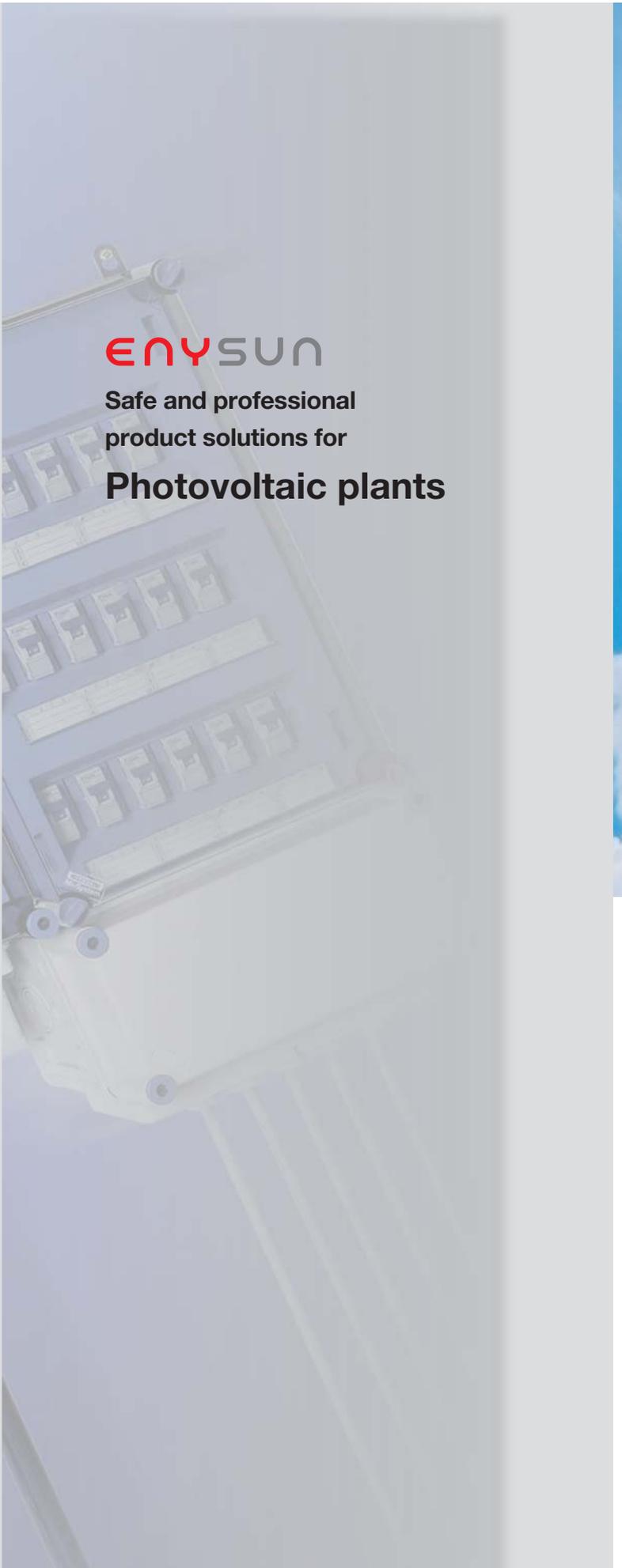


Pressure compensation element
 degree of protection IP 65
 BM
 M 32



Cable glands
 degree of protection IP 65
 glow wire test IEC 60 695-2-11 960 °C
 AKS
 Pg 9 - Pg 48

NEW
ENYSUN



ENYSUN

Safe and professional
product solutions for

Photovoltaic plants



Photovoltaic solutions from Hensel

Standardised and pre-fabricated

■ Our ENYSUN product solutions provide a number of advantages when selecting and installing photovoltaic systems. The distributors are prefabricated making them quick and easy to connect. The PV generator junction boxes and solar inverter collectors are equipped with busbars, protection devices and terminals, so that you only have to wire on site. Thus you save time and costs with procurement and installation.

Proven and tested Hensel quality

■ All ENYSUN distribution system products fulfill the IEC 60 364-712 standard. The general fulfilment of this standard demonstrates Hensel ENYSUN product series' high quality. Using high quality materials means that you can always count on them functioning perfectly. ENYSUN distributors are totally insulated , impact resistant, dust proof and water-proof (degree of protection **IP 65**), UV resistant and resistant to corrosion from rain, ice and snow.

Cable entry and ventilation

■ The formation of condensation water in closed boxes cannot be prevented in outdoor applications!

Combi climate glands in boxes with a high degree of protection prevent accumulations of condensation resulting from large temperature fluctuations caused by changing weather, intense solar radiation etc.

Your advantage:

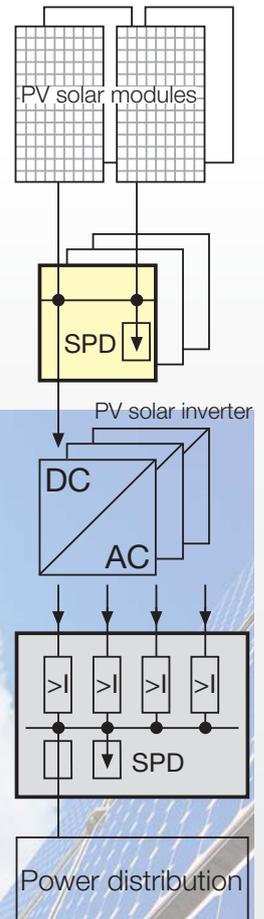
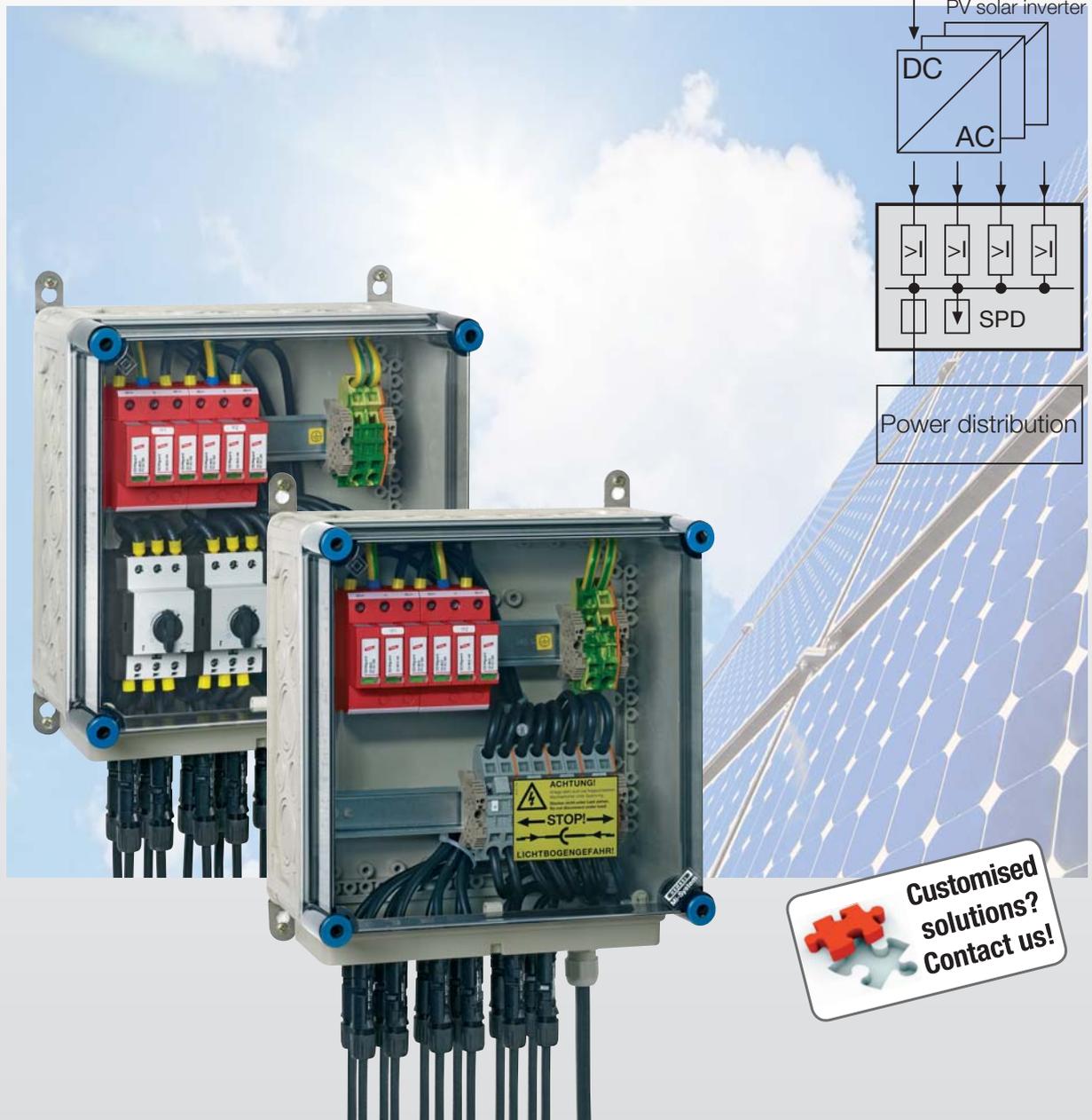
Cable entry and ventilation in one.

Practical product solution



PV generator junction boxes

- Rated current: up to 400 A
- Rated insulation voltage: DC 1000 V ($U_{OC\ STC}$)
- Protection class: II
- Degree of protection: IP 65
- Suitable for outdoor installation and harsh environment
- UV resistant
- Plug-in connections for PV Strings
- Plug-in connections for outgoing cables of solar inverter
- Surge protection type 2 for PV plants
- Ready for connection
- With stainless steel external brackets for box fixing



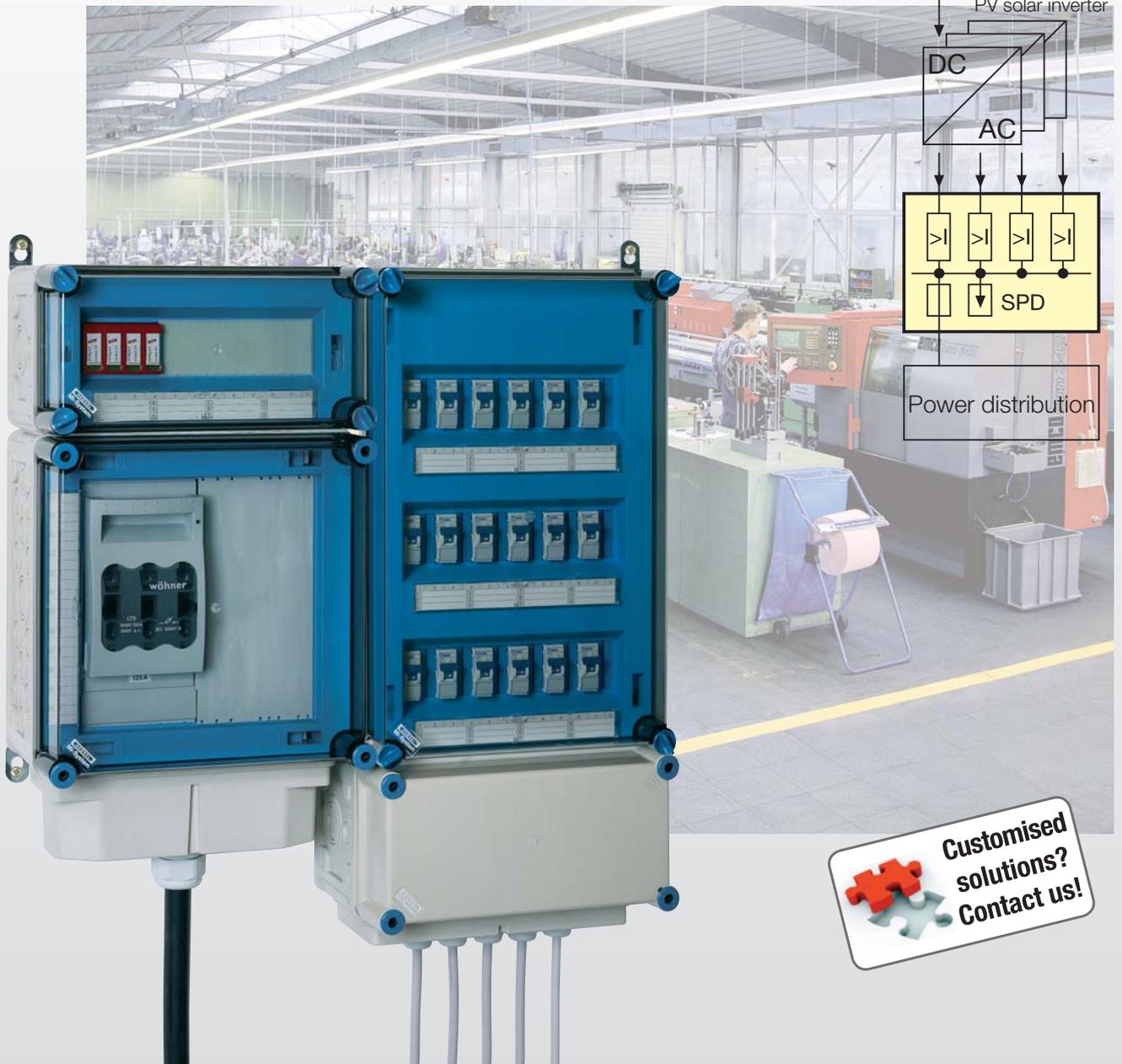
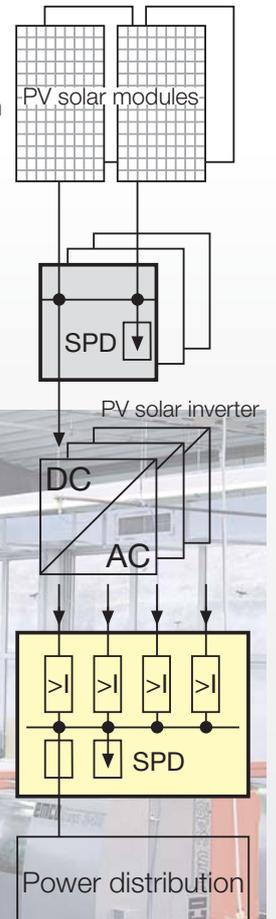
Customised solutions? Contact us!

Solutions for Photovoltaic plants



Solar inverter collectors

- For solar inverters up to 11 kW, 1~
- for solar inverters up to 33 kW, 3~
- Rated operating current max. AC 48 A per inverter
- Rated capacity: up to 220 kW
- Rated voltage: AC 230/400 V
- Protection class: II
- Degree of protection: IP 65
- Suitable for outdoor installation and harsh environment
- Set as kit system
- At any time extendable



Customised solutions? Contact us!



Headquarter in Lennestadt, Germany

Representations abroad

Africa

Angola
Egypt
Kenya
Mozambique
South Africa

Estonia
Finland
France
Great Britain
Hungary
Iceland
Ireland

America

USA

Italy
Latvia
Lithuania

Asia

Bangladesh
Bhutan
Cambodia
China
Georgia
India
Indonesia
Iran
Japan
Kazakhstan
Malaysia
Maldives
Myanmar
Pakistan
Philippines
Singapore
Sri Lanka
Taiwan
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www.hensel.hu

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