

Functional

Versatile

Practical

Secure

Innovative

Features



VARISTAR ONE SYSTEM FOR ALL SOLUTIONS.

One platform for all electronic applications

An Electronics Packaging system with versatile capabilities that expands with evolving project requirements: VARISTAR offers innovative technology with solutions that look to the future. Individual configurations ensure industry specific solutions.

Control and Measurement Technology

Where the highest flexibility is demanded, VARISTAR will be ideal: Through its multifunctional complete concept VARISTAR can be adapted perfectly to individual requirements - quickly and simply. From the wide range of trims and components an optimum solution can always be found. Quick access through side panels and the rear facilitate installation and modification. For frequently changing locations in the laboratory sector castors with integrated adjustable feet can be assembled.

Automation

VARISTAR is ideally suited for harsh industrial environments: High mechanical stability, protection against dust and water, also VDE compliant earth connections guarantee the safety of the end product. Numerous climate control systems are available with fans or active cooling systems.

Transport and Defence Technology

Outstanding reliability even for the most demanding applications. VARISTAR fulfils the highest technical demands and is designed for durability:

Double protection against corrosion through AlZn and powder coating of the frame, 800 kg load-carrying capacity and shielding against high frequency interference. Dust and water protection to IP 55. All product specifications are documented by relevant tests.

Telecommunication

As a platform product with flexible readily available, standard components VARISTAR is the complete answer for the fast moving telecommunications market.

Network and Data Technology

Ease of assembly, uninterrupted cabling combined with optimum heat management are some of the outstanding characteristics of VARISTAR. Specifically designed components and cooling solutions are available for this industry.

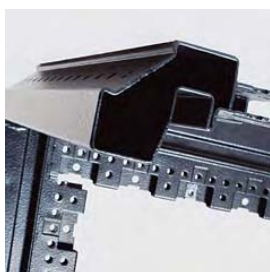
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Slim-Line	Up to 400 kg static load	19" standard to IEC 60297-2	Load-carrying to IEC 61587-1
Heavy-Duty	Up to 800 kg static load	19" standard to IEC 60297-2	Earthquake test to Bellcore Zone 4



Slim-Line profile



Heavy-Duty profile

Flexibility, re-defined by VARISTAR:
With Slim-Line and Heavy-Duty, two load-carrying options are available for the maximum range of applications.

Slim-Line

The Slim-Line version is based on a frame with very slender rolled steel sections and meets the dimensions of the European Telecommunication Standard Institute (ETSI) and also the 19" standard, when constructed with the corresponding panel/slide mounts. VARISTAR Slim-Line allows a load-carrying capacity of up to 400 kg and is therefore extremely versatile in its application within the telecommunications sector.

Heavy-Duty

The stable Heavy-Duty frame has been specifically constructed for applications where heavy load-carrying capacity is required. It offers the highest stability, with static loads up to 800 kg and safety even in extreme environmental conditions, such as shock and vibration.

Design benefits

Two frames with unique adaptability that fulfil all demands of an electronic cabinet with a distinctive appearance which puts other electronics packaging systems in the shade. VARISTAR – mutually conceived technology with a modern industrial design. The base size of both frames is the same, enabling side by side use. Functionally different trims and accessories for all applications fit both frames. With VARISTAR all demands are met: One product platform for all applications with a global design.

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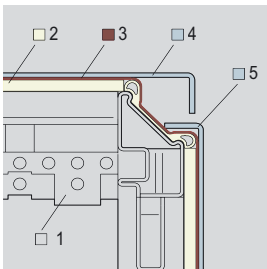
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Upgradable for IP and EMC to demand

VARISTAR has complete documentation for specifications and test reports to IEC 61587.

Electromagnetic shielding to IEC 61587-3	IP 55 protection to IEC 60529
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EMC solution

- 1 frame
- 2 seal
- 3 EMC shielding
- 4 rear panel
- 5 side panel

Efficient and safe – the VARISTAR IP/EMC solution. With VARISTAR conventional, often expensive shielding methods are consigned to the past. No expensive customer specific solutions – with VARISTAR safety is standard.

Technical Data – tested and documented to international standards

VARISTAR offers our customers international technical data as reliable reference values. Climatic and mechanical tests and excellent electromagnetic shielding prove the safety and the flexible application possibilities of VARISTAR.

EMC – Electromagnetic Shielding

The quality of the electromagnetic shielding of an empty electronic cabinet is categorised in performance classes. The shielding values achieved, give the user starting points for the measures needed to reach the electromagnetic compatibility (EMC) of the end product. Following conventional concepts, the conductive seals are assembled between the cabinet frame and the cladding, whereby all contact areas have to be conductive and protected from corrosion.

VARISTAR finds new ways

With VARISTAR a new, more effective way has been designed. The so-called steel sections of the frame incorporate a 45° outer surface onto which the EMC seal of the neighbouring trims make direct contact without the inductive voltage passing through the frame. As the cabinet trims are conductively connected with each other through the seal, the induced voltage will leak away over the surfaces. The result is a more effective shielding and the saving of costly surface treatment of the frame.

IP – VARISTAR fulfils the highest protection standards

The protection for dust and water penetration (IP 55) is handled in the same way as the electromagnetic shielding. The shielding material only differs in its conductivity, but not in its form. Therefore the possibility to adapt to EMC shielding at a later date exists.

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locking bar



lift and swivel handle



An innovative locking system for maximum security

VARISTAR proves itself with an innovative locking system and secure locking parts: through this the doors can be locked easily, effectively and absolute tightly.

Many demands – one positive solution

The demands of the locking systems in the electronics packaging sector can be very different depending on the area of application. VARISTAR has therefore developed a locking system, which allows various combinations: mechanical door handles or keypads with electronic operation and all available lock inserts can be freely selected.

Innovative locking bars

The locking bar concept, which operates a variable number of cams, offers a number of benefits. It optimises the compression of the sealing element. The effort needed to operate them is low, the grip of the cams is secure and the compression is even. The VARISTAR locking solution offers a distinct advantage for large EMC doors.

Contra-rotating cams

Cams can be fitted above and below the handle on the locking bar. When the locking bar is operated, the cams above and below contra-rotate, which balances the friction forces and thereby avoids a one-directional vertical strain on the door.

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Functionality, flexibility, modularity and stability are among the most important criteria when choosing an electronics packaging system. VARISTAR combines perfectly balanced technology with outstanding versatile construction and upgrade capabilities.

Unique profiles

VARISTAR combines three different assembly features with one profile: special holes, assembly slots and a 45° angle. Through this unique combination component and accessory parts can be assembled in many different ways. The fulfilment of customer specific requirements is uncomplicated and cost effective, as for most applications the frame does not require modification.

Unique 25 mm fixing grid

In particular the special holes on a 25 mm grid offer the user freedom of assembly, as it allows the

fixing of angle brackets, depth members, slide rails, shelves etc. either from the inside or outside. All parts can be positioned quickly, easily and firmly.

Efficient in all dimensions

The profile features on VARISTAR are located at all three axes on a 25 mm grid (height, width, depth) and therefore offer the highest flexibility and functionality. For instance for certain applications they avoid the requirement for depth members, thus saving costs.



Grid and 45° angle



19" panel/slide mount

Functional

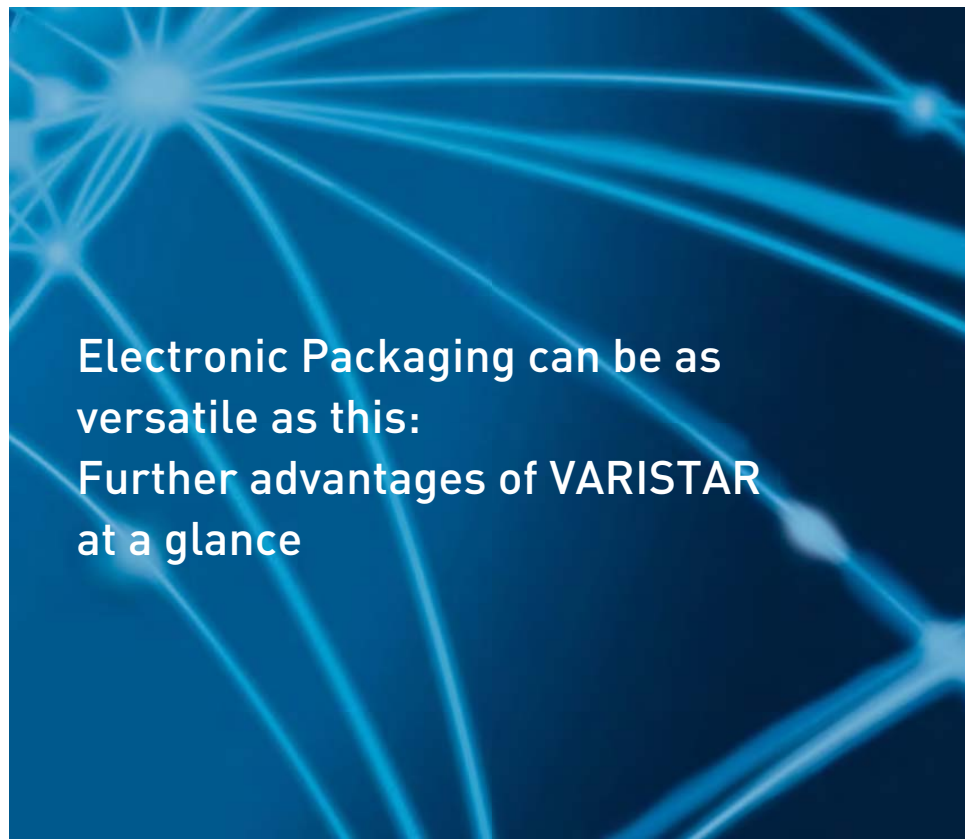
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Hinges

With new hinges VARISTAR doors can be taken off and rehung simply and safely by one person without the need of tools. The doors have an opening angle of 180° facilitating the installation of equipment and also maintenance.



Side and rear panels with 'Quicklock'

The 'quicklock' allows the comfortable assembly and disassembly of side and rear panels. As an option for increased security the 'quicklock' can be equipped with a key lock.



Combination of castors and adjustable feet

Combined castors and adjustable feet make relocation of cabinets and alignment for uneven floors easy.



Slide nut

A new slide nut facilitates the assembly of component and accessory parts. The user also benefits from another feature: the slide nut is earthed.

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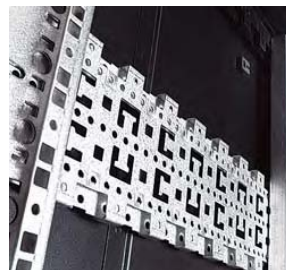
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19" panel/slide mount

The 19" panel/slide mount is the heart of any cabinet. All applications within the 19" sector can be assembled in VARISTAR. An ingenious geometry provides high stability and the flexible hole grid makes it possible to reposition equipment at different heights or depths.



Depth members

VARISTAR is equipped with multifunctional depth members, which enable diverse cabinet assembly. For instance shortened 19" panel/slide mounts can be fixed at increments of 25 mm onto the depth member. Additional holes in the depth members serve as fixing points for cable support.



Shelves

VARISTAR offers a wide range of shelves for all applications. Both stationary and telescopic shelves are available for different load-carrying capacities. They are perforated for better cooling purposes and optimum cabling facilities.



Slide rails

VARISTAR standard slide rails are easier to insert and have a wide mounting surface, which stands up to all demands. Depth adjustment is integrated into the slide rails as standard.

ServicePLUS: Content(s)

