

**Short Form Catalog** 

Product range

2018-2019

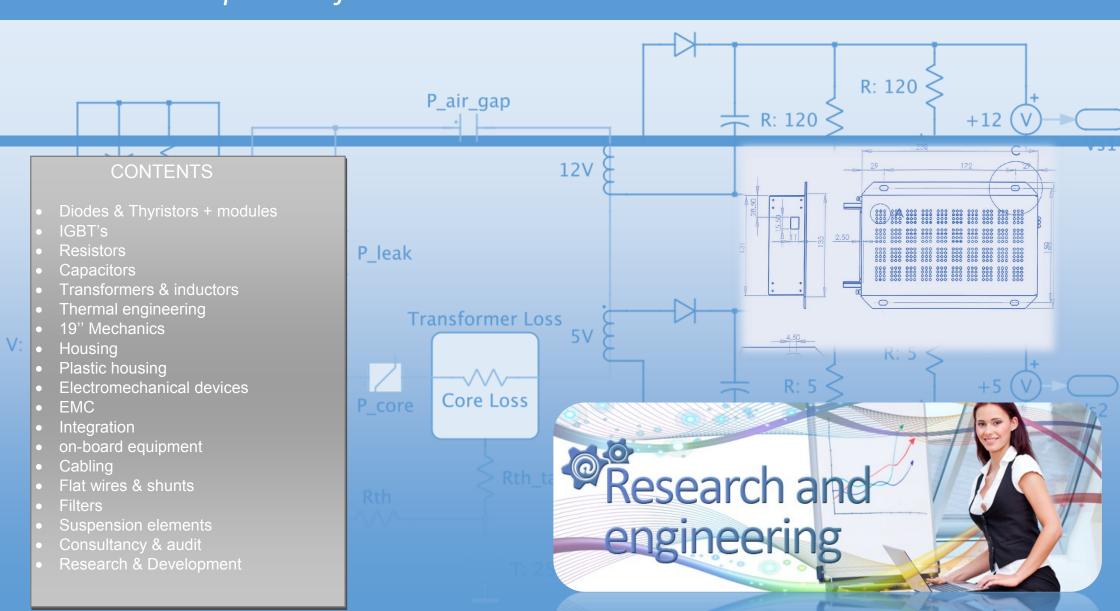


### DESIGNER IN POWER ELECTRONIC SOLUTION





## Your partner for electronic solutions

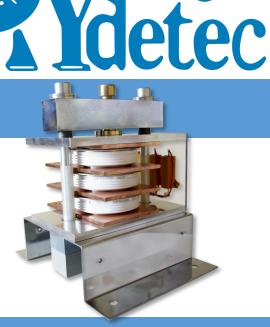




### Power semiconductor Devices







**Integrated solutions** 

**High power semiconductors** 

High quality level semiconductors in presspack or stud housing.

Power modules thyristors and diodes

**IGBT modules - Low Medium and High power** 

High power semiconductors for industrial applications

Drivers and controllers

Upgrade and obsolescence program full compatibility

Each device tested before delivery

**Features** 

- Capsule type diode & thyristor
- Stud type devices
- Power module, bridge Rectifier
- Solid state relay
- Switching power supply
- Integrated and custom solutions

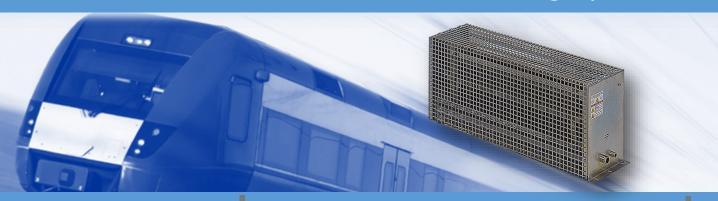
- Range from 0.5kW to several MW
- Multipurpose application like renewable energies, transportation, power supplies, welding, medical, ...
- Custom made production
- Drivers & controllers
- Accessories, clamps, ....







Wirewound resistors—Brake resistors—High power Resistors



**Wirewound resistors** 

High power resistors in heatsink or grid housing

High power resistors manufactured in aluminium cases or

Heaters

Brake resistors - Heaters - shunts

High level resistors for railways and industrial applications.

Custom made production.

Custom manufacturing according to drawing or datasheets.

Brakes and crane applications..

### **Features**

- Vitreous enamelled resistors
- Cemented resistors
- Very high power & low cost
- Railways applications and knowhow
- From 20W up to 75kW

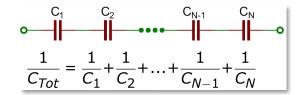
- Resistors for motor braking for inverters
- Heaters for air-conditioning

heatsinks. Resistors banks in cabinets. IP level resistors

- All type of brackets
- Housing following datasheets













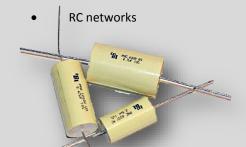


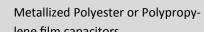


**Film Capacitor** 

Film capacitors for general applications in electronics. Low power switching applications, HF coupling and decoupling, filtering, timing, ...

- lene film capacitors





AC & motor run capacitors

**Aluminium Capacitor** 

Electrolytic aluminium capacitors with high capacitance levels. Used for filtering functions for converters, electrical backup systems, power for discharge circuits or for motor supercharging.

- Axial or radial solder case
- Screw terminals
- HV, up to 145°C working temp
- Extra long life capacitor
- High capacitance (22000µF 460V)
- **Custom production**

**Power Capacitor** 

High quality power capacitors for power electronic applications

DC/AC capacitors 10nF >30mF, 100V>100kV, 10A>1000A

Traction, drives, pulse pwr, automotive, other (etc)







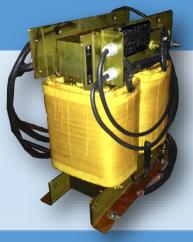
## Transformers & inductors













**Inductive components** 

**Transformers - Inductors and Harmonic Filtering** 

**Special Production** 

Wide range of standard transformers, Many different purposes and applications.

pplica-

Renewable energies, Energy quality and saving, Hospitals, railways, Marine, Offshore, Installations and Switchgears, Adverse environment, Signaling, Elevators, Power Electronic, Electrocoagulation, Oil & Gas, Lighting, and Others

High quality products, designed and manufactured under the customer's requirements.

IP00-IP54

Max voltage 6kV

### **Features**

- Main transformers
- Pulse transformers
- Toroïdal inductors
- Current transformers and measurements applications
- 50:60Hz current transformers

- Toroidals 15VA 20kVA
- Single phase 10VA 100kVA
- Three phase 250VA 2000kVA
- Inductors





Single or Three phase - Direct current - Magnetic cores - Vanishing - Tropicalized - Encapsulate and customized assembly - Terminals or busbar connection

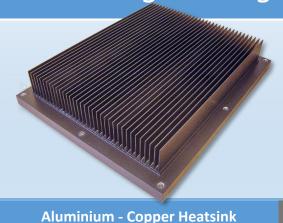




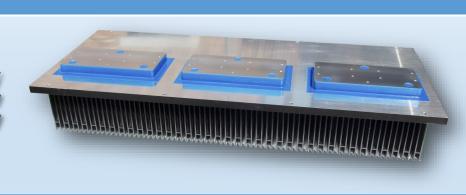




## Thermal Engineering







**Isolated heatsinks** 

Extruded profiles and assemblies for high temp operating systems. Improved heat transfer to the environment. Every power levels and every shapes Insulated epoxy heatsinks and IGBT insulators. Good thermal performences combined with excellent dielectric properties (up to 12kV, testing)

All insulated heatsinks are 100% tested and certified.

Ventilation and cooling blowers for traction motors, braking resistors, transformers, convectors and airconditioning.

Centrifugal, Centraxial, mixed flow configurations

- Aluminium or copper heatsink.
- Surface finishing Alodine 1000 1200
- Black or colored anodizing
- Barrel finishing
- Raw
- Sandblasting
- Painting



- Up to 12kV
- Low partial discharges values
- Custom-tailored executions
- Suitable for light and heavy traction equipments
- Reliability in excess of 20 years with stable performences



Bosari Thermal Management





### Metallic constructions - 19 inch cabinets and enclosures



Autonomous structures such as racks, frames (cabinet without housing), technical desks, consoles, employed as receptacle for electronic or electrical equipment.

Possibility of EMC shielding. IP protection. Reinforced structure for rollingstock applications





# 19 inch housing - Racks and subunits









- 1U to 9U format
- Housing and punching following 3D or datasheet
- Painted or natural anodized material
- Different depths
- Rollingstock ready

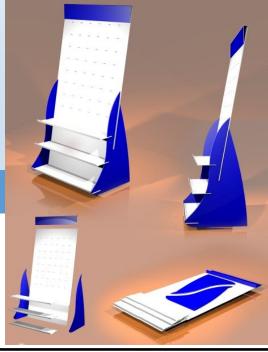
- Framework in stainless steel
- From 1U to 45U
- Standards NFC 20150 and 20151, IEC 297 and DIN41494
- Different widths and depths
- welded, steel skinplates





# Plastic Housing - Displays - Dashboard





#### **Features**

#### No mold plastics

- No tooling charge / No mold
- Low engineering charges
- Low and medium runs
- Easy and cheap modifications
- Flexibility for improvement





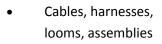




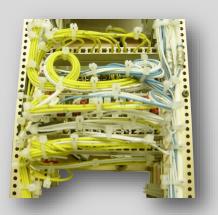
# Wiring, cabling, connect & integration





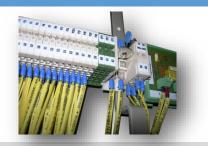


Integration of systems, racks, shelters





Wires

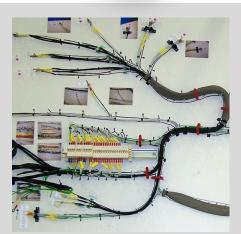


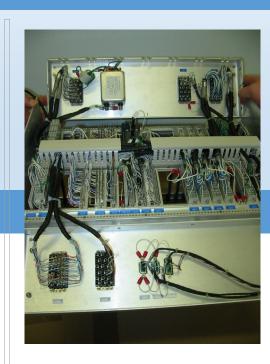
- Preparation of cables and kits
- Wrapping
- Cutting, crimping
- Marking
- Maintenance & Retrofit



Connect







### **Short Form Catalog**

Product range

## Filters & Vibration technology

»YDETEC proposes a complete range of elastomeric antivibration mounts to isolate noise, shock and vibrations; to allow machine isolation and to protect the environment.... »



Suitable for heavy weight and high temperature

Stainless steel mesh body Custom shapes

Corrosion free





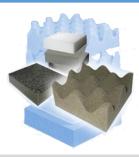
Droplet separation technology

Automotive solutions

Knitted wire mesh on rolls



- Elastomer Mounts
- Metal mounting
- Flexible bushes
- Accoustic foams





#### **Filter with heating function**

Equipment for rolling stock vehicules for filtering and drying purpose

MESH FILTER + HEATING WIRE



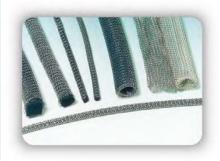
#### **STEEL CUSHION**

Vibrachoc have a range of all steel mounting whose essential element is the « steel cushion » made from woven stainless steel wire and compressed. Steel mountings have considerable mechanical strength as well as high damping characteristics in the...



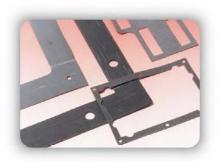


## EMC - EMI/RFI Shielding solutions











ElectroMagnetic Compatibility (E.M.C.) is the ability of an equipment to operate in its electromagnetic environment without being disturbed, and without disturbing neighbour equipments or radio services by ElectroMagnetic Interference (E.M.I.).

### **Features**

- Linear seals
- Sheet gaskets
- Cable shielding
- Aperture shielding
- Miscellaneous
- RF & Microwave absorbers

Depending on the application and the intended environment, shielding techniques can be used for :

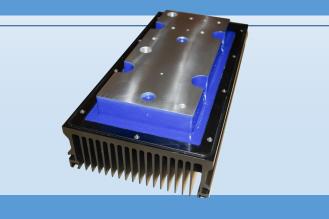
- reducing the electromagnetic field emitted by an equipment, to make it compliant with the radiated emission norms,
- - reducing the ambient electromagnetic field received by the circuits inside an equipment, to make it compliant with the radiated immunity norms,
- building a screen around a cable pair or bundle,
- improving the electrical continuity between cable shields and equipment chassis, to facilitate the shield current circulation and optimize the shield performance,
- - improving the electrical continuity and equipotentiality of the different ground references, chassis and metallic parts of a given system or site, without necessarily resorting to a six-sided enclosure.

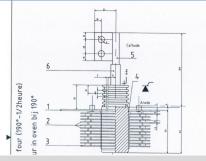
# Retrofit & Obsolescence

















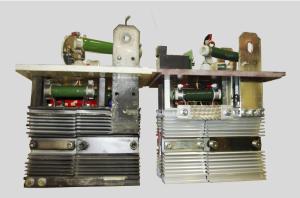


Sourcing + customer's stock + engineering

=

New device plug and play with actual technology and reability!









### Accessories—Miscellaneous













- Shunts & flat breaded contacts
- Heating foils and probes

- High voltage fuses
- Isolators
- Heaters
- Seals

- Front panels & printing
- Tools
- Machining
- Others

**References** 





**ALSTOM** 

Keolis

















## Your partner for electronic solutions

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Ydetec Electronics,

your partner in integrated power management solutions.

We put our 25 years

old experience in industry and

railways at your service

