

Best-in-class products to meet  
your application demands

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Never stop thinking



## EasyPIM™, EasyPACK

The easy way with compact modules

### Product range

600V, 6A - 200A  
1,200V, 10A - 150A

### Circuit design

- Bridge rectifier
- PIM
- FourPACK, SixPACK
- Dual, halfbridge

### Applications

- Air-conditioning
- Household appliances
- General purpose drives from 150W up to 30kW
- Pumps, fans
- Uninterruptible power supplies

### Features

- Compact module concept
- High reliability and power density
- PressFIT technology available
- Configuration flexibility
- Low cost design of modules
- Modules without base plates
- Easy's with clamping system
- Latest IGBT<sup>4</sup> 1200V chip technology with  $t_{top}$  of 150°C
- IGBT<sup>3</sup> 600V with  $t_{top}$  of 150°C
- High automated production line
- RoHS compliant



## EconoPIM™, EconoPACK™

Trendsetting in case design and IGBT technology

### Product range

600V, 10A - 200A  
1,200V, 10A - 200A  
1,700V, 50A - 100A

### Circuit design

- PIM
- FourPACK, SixPACK
- TriPACK
- 12PACK
- Shunt modules
- SixPACK active front-end

### Applications

- Variable speed drives
- Uninterruptible Power Supplies
- Welding applications
- Inductive heating
- Renewable energy systems

### Features

- Modules with copper base plate
- Optimized heat spread
- Included thermistor (NTC)
- High reliability and power density
- Latest IGBT<sup>4</sup> chip technology
- New mounting technology PressFIT for EconoPACK™ and EconoPIM™ modules







## 34 mm, 62 mm, EconoPACK™<sub>4</sub>, EconoPACK™<sub>+</sub>, EconoDUAL™ modules

The most competitive line of IGBTs from the expert

### Product range

- 34 mm/62 mm modules
  - 600 V, 50 A - 400 A
  - 1,200 V, 25 A - 800 A
  - 1,700 V, 50 A - 600 A
- EconoPACK™<sub>4</sub>
  - 600V, 100A - 200A
  - 1,200V, 100A - 200A
  - 1,700V, 75A - 150A
- EconoPACK™<sub>+</sub>
  - 1,200V, 150 A - 450 A
  - 1,700V, 150 A - 450 A
- EconoDUAL™<sub>2</sub>
  - 600V, 200A - 400A
  - 1,200 V, 50 A - 200 A
- EconoDUAL™<sub>3</sub>
  - 600 V, 450A - 600A
  - 1,200V, 150 A - 450 A
  - 1,700V, 150 A - 450 A

### Circuit design

- 34 mm/62 mm modules
  - Single and Half bridge
  - Chopper modules
  - Diode modules
  - Single switch with series diode

- EconoPACK™<sub>4</sub>,  
EconoPACK™<sub>+</sub>, EconoDUAL™
  - SixPACK
  - Dual modules
  - FourPACK
  - Chopper modules

### Applications

- Variable speed drives
- Uninterruptible power supplies
- Resonant converters
- Welding applications
- Renewable energy systems
- Inductive heating

### Features

- High reliability
- Full product range in various configurations
- Latest IGBT<sup>+</sup> chip technology for maximum power density and best parallel switching performance
- Symmetrical construction for even and low stray inductance
- Compact inverter designs
- RoHS-compliant



## IGBT high current modules IHM, PrimePACK™

The best in class, solution for high power applications

### Product range

- IHM
  - 1,200 V, 400 A - 3,600 A
  - 1,700 V, 400 A - 3,600 A
- PrimePACK™
  - 1,200 V, 450 A - 1,400 A
  - 1,700 V, 450 A - 1,000 A

### Circuit design

- Single
- Half bridge
- Chopper modules
- H-bridge
- SixPACK
- Diode modules

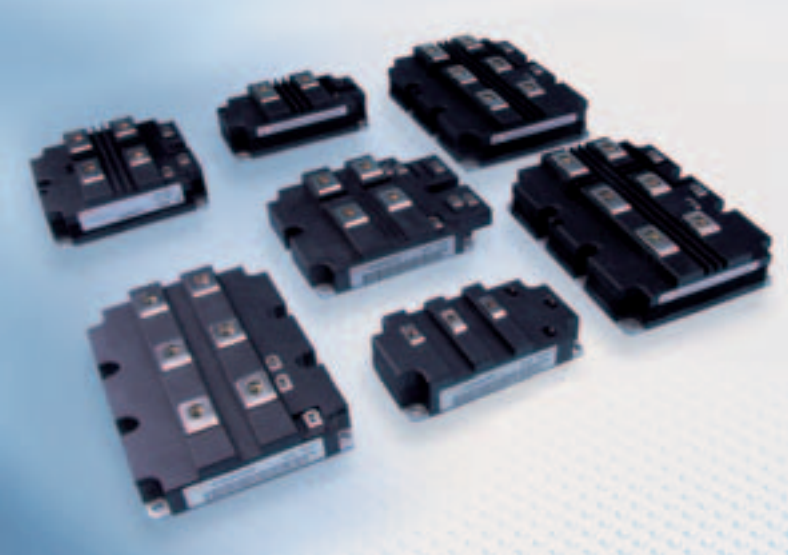
### Applications

- Variable speed drives
- Commuter trains
- Tramways and trolleybuses
- Welding applications
- Medical X-ray technology
- Uninterruptible power supplies
- Renewable energy systems
- Inductive heating

### Features

- High power density for compact converter designs
- Modules setting a world standard in their class
- Broad range of products
- Increased creepage and clearance for use in rough environments
- Robust module design
- Good saturation and switching characteristics with wide RBSOA
- RoHS compliant





## IGBT high voltage modules IHV

Devices for traction and high power industrial drives

### Product range

3,300 V, 200 A - 1,500 A  
6,500 V, 200 A - 750 A

### Circuit design

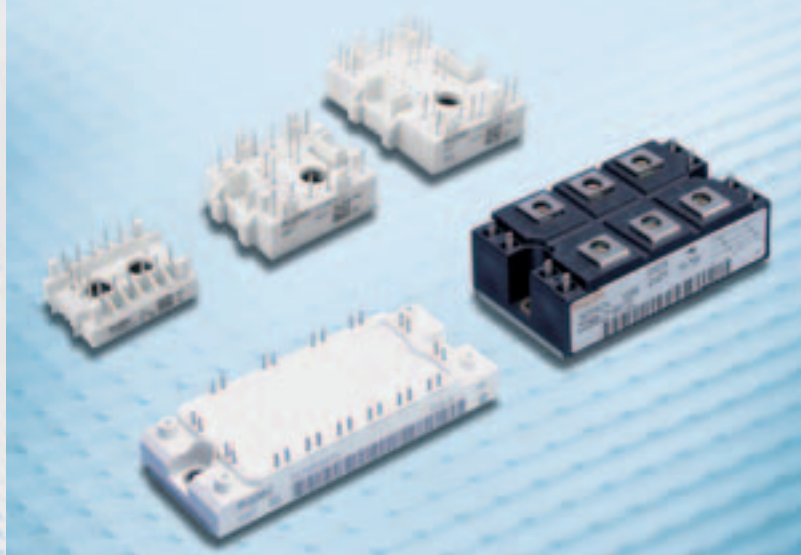
- Single
- Dual
- Chopper modules
- Diode modules

### Applications

- Industrial drives for medium AC voltage
- Traction (commuter trains as well as rapid trains)
- Large drives

### Features

- High power density for compact converter design
- AlSiC base plate for highest reliability and high power cycling capability
- Increased creepage and clearance for use in rough environments
- Package material with CTI up to 600
- IHV B-series, the second generation with operating temperature up to 150°C available
- Lightweight materials for reduction of overall converter weight
- Extended DC stability
- Fulfills NFF fire and smoke standards



Bridge rectifiers and AC controllers, EasyBRIDGE, eupec™ EconoBRIDGE™, eupec™ IsoPACK™ ... for a more compact converter design

### Product range

- EasyBRIDGE  
800 V, 30 A - 50 A  
1,600 V, 30 A - 65 A
- eupec™ IsoPACK™  
1,600 V, 85 A up to 205 A
- eupec™ EconoBRIDGE™<sub>2</sub>  
1,600 V, 85 A up to 180 A

### Circuit design

- 3-phase rectifier in uncontrolled, half controlled and full controlled bridges
- 3-phase AC switches

### Applications

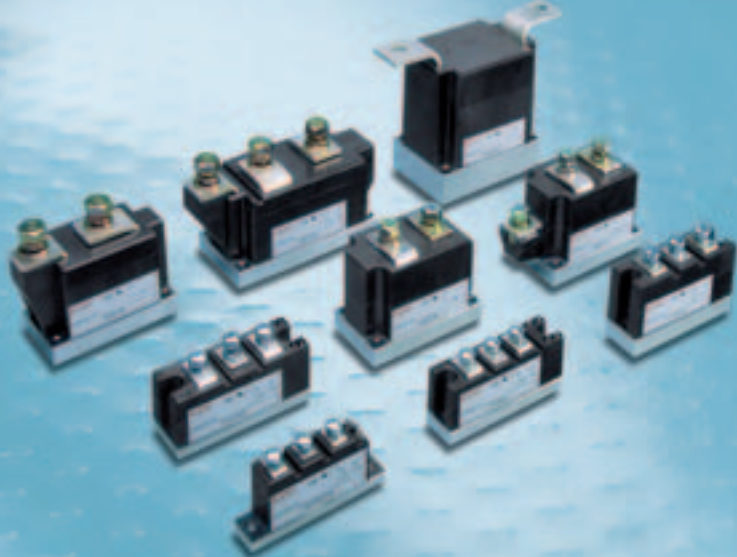
- Frequency converters in drive design
- Power supplies
- Uninterruptible power supplies
- Chopped power supplies for high power SMPS
- Softstarters
- Drives

### Features

- EasyBRIDGE and eupec™ EconoBRIDGE™
  - Solderpin modules with optional Brake IGBT and optional NTC resistor in rectifier configuration
  - Housing concept matches the EasyPACK and EconoPACK™ inverter module series
  - EasyBRIDGE modules also available for single phase applications
  - RoHS-compliant
- eupec™ IsoPACK™ bridges
  - Modules with screwable power terminals
  - Concept designed for replacing 3 x 20 mm SCR/diode half bridge modules
- Housing concept matches the 62 mm IGBT modules







## Thyristor and diode modules PowerBLOCK

A product range for optimum design

### Product range

- Phase control thyristor PowerBLOCK  
1,200 V - 3,600 V, 60 A - 800 A
- Rectifier diode PowerBLOCK  
800 V - 4,400 V, 85 A - 1,070 A
- Fast Diode PowerBLOCK  
800 V - 2,600 V, 46 A - 240 A

### Circuit design

- Modules with single diode or thyristor
- Modules with two diodes, thyristors or in combination of both
- In halfbridge configuration for phase rectifier or AC switches

### Applications

- Industrial drives
- Softstarters
- Power supplies
- Renewable energy systems
- Welding applications
- Electrolysis
- Traction

### Features

- Modules in pressure contact technology with screwable power terminals for high current and blocking voltage
- Highest robustness and reliability
- Nearly all configurations are available for easy rectifier assemblies



## Thyristor and diode PressPACK

When maximum power output is required at minimum power losses

### Product range

- Phase control thyristor discs  
200 V - 8,000 V  
86 A - 4,700 A
- Light-triggered thyristors LTT  
5,200 V - 8,000 V  
500 A - 3,500 A
- Rectifier diode discs  
200 V - 9,000 V  
120 A - 8,000 A
- Fast rectifier diode discs  
600 V - 6,500 V  
56 A - 1,460 A

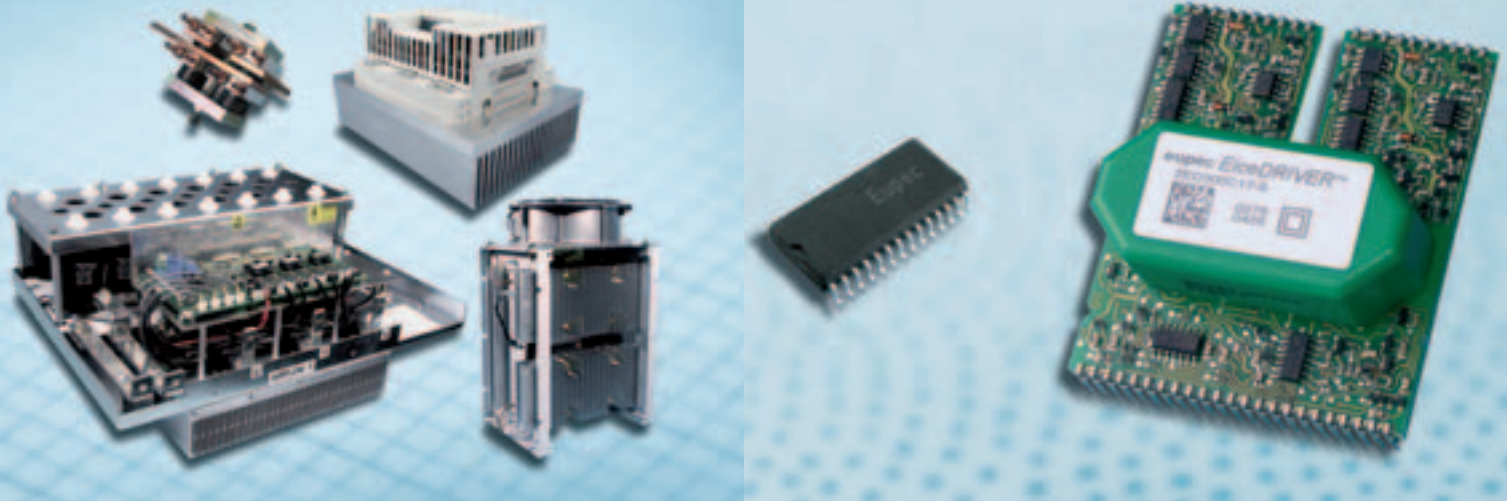
### Applications

- Electric energy mains
- Industrial drives
- Softstarters
- Traction
- Power supplies
- Welding
- Electrolysis
- Renewable energy systems
- Pulsed power
- HVDC line transmission systems
- Static VAR compensation (SVC)

### Features

- Wide product range
- High current
- High blocking voltage
- Light-triggered
- Highest robustness
- Highest reliability





## Stacks and subassemblies

We are the experts for cooling management

## EiceDRIVER™ IGBT driver boards and ICs

Driving the intelligent way

### Product range

- SCR/diode stacks and sub-assemblies thyristor  
180 V - 2,500 V, 10 A - 5,000 A
- IGBT ModSTACK™  
180 V - 690 V, 50 kVA - 4 MVA
- IGBT PrimeSTACK  
1,200 V IGBT, up to 1,600 A  
1,700 V IGBT, up to 1,200 A

### Applications

- Industrial drives and elevators
- Renewable energy and other distributed power generation systems
- UPS
- Traction
- Medical technology
- Energy treatment and HVDC conversion
- Galvanic, electrolysis and electroplating
- Pulsed power

### Features

- Short time-to-market and reduced system costs due to “ready-to-use” power section
- Flexible system for power solutions due to modular approach
- Modular stack design for industrial approved cabinets
- Various power electronic available
- Optimized integrated thermal management
- Low inductance IGBT stack design

### 2ED300C17 - S/ST

#### Features

- For 1,200 V / 1,700 V IGBT modules
- $V_{CEsat}$  monitoring
- “Soft shut down” for fault conditions
- Safe electrical isolation according to EN 50178
- Integrated DC - DC SMPS 8 W
- High peak output current 30 A
- $\pm 15$  V secondary drive voltage

#### Applications

- Traction
- Large drives
- Distributed power
- Other applications > 100 kVA
- Renewable energy systems

### 2ED02012 - F

#### Features

- Fully operational to 1,200 V
- Gate drive supply range from 13 V to 18 V
- Gate drive currents of +1 A / -2 A
- Matched propagation delay for both channels
- High dV/dt immune
- General purpose operational amplifier
- General purpose comparator

#### Applications

- General purpose drives
- Other applications up to 15 kVA





## Philosophy

Our business philosophy is “our customers first”

WE ARE ALWAYS ANXIOUS to have an open dialogue with our customers. Our customers benefit from innovative technologies and services and we also support in terms of ensuring successful marketing of products. Many product innovations were developed on this basis.

WE HAVE AN EXPERIENCED TEAM of regional application engineers supporting our customers in designing our products into their solutions. We create evaluation boards to enable a fast and reliable solution for the integration of our modules and devices in renewable power systems.

REGULAR QUALITY CERTIFICATION AUDITS together with our customers, strengthen our confidence and make our highly reliable production processes more transparent.

OUTSTANDING CUSTOMER SATISFACTION verifies the success of our work. An open and intensive cooperation in all areas is the basis for long-term partnerships. Both sides consider this to be most important.



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