



Lenzburg, June 2021

## **Hitachi ABB Power' Grids high-quality Modules expand to Medium Power**

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**HITACHI ABB POWER GRIDS**

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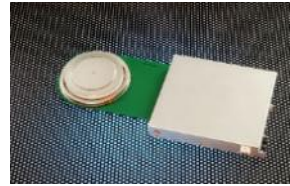


- Coming from high-power semiconductors, Hitachi ABB Power Grids is regarded as one of the world's leading suppliers setting standards in performance and quality.
- Hitachi ABB Power Grid's unique knowledge in high-power semiconductors now expands to industry standard medium-power thyristor/diode modules.

for more than 65 years



**1981**  
Development of high power semiconductor factory in Lenzburg, Switzerland



**1996**  
Beginning of production of IGCT in Lenzburg, Switzerland



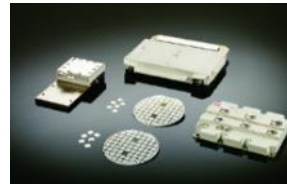
**2010**  
Expansion of production facilities in Lenzburg, Switzerland



**2014**  
Inauguration of new state of the art research laboratory in Dättwil, Switzerland



**1954**  
BBC develops the first germanium diode



**1998**  
Inauguration of production facilities for IGBT in Lenzburg, Switzerland

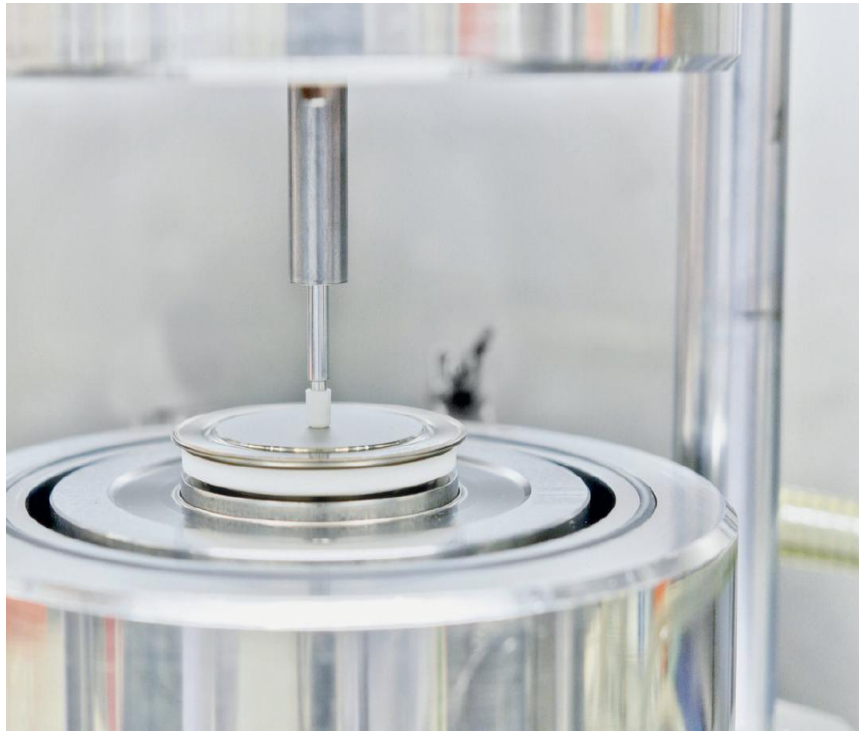


**2010**  
Acquisition of Polovodice in Prague, Czech Republic



**2012**  
Successful design and development of hybrid HVDC breaker

## High quality and process reliability levels



- High level of quality and process reliability documented in various audits.
- Quality management and quality assurance.
- Enhanced testing, highest reliability and very few field returns.
- Benchmark in ppm and FIT rate for premium products.
- Zero Defects methods applied.



## 60Pak



- Hitachi ABB Power Grid's power semiconductors provide the ultimate in reliability and are the epitome of quality
- Whether efficiently driving industrial motors, smoothly accelerating fans and pumps or supply power to demanding applications – failure is not an option
- After successfully launching IGBT medium power modules, Hitachi ABB Power Grid is introducing a BiPolar power module perfecting the art of ultimate reliability – **the 60Pak**
- The key benefits of the new 60Pak are highest performance, outstanding reliability and increased overload capability.
- All highest quality Hitachi ABB PowerGrid's assets wrapped in a standard industrial housing.

## Thyristor / diode Module features

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- Precise pressure contacts for high reliability and load cycling capability
- 60 mm Industry standard housing
- Insulated baseplate by AlN ceramic ensures excellent heat transfer and high insulation voltage level.
- Very low losses together with the highest operating temperatures.
- UL recognized
- Voltage range 1.8 - 2.2 kV
- Forward current up to 890 A

## Applications

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- Uncontrolled line frequency bridge arm in medium voltage drives
- Input rectifiers in AC/AC converters
- DC power supply for applications such as industrial and renewables.
- AC motor soft starters and variable speed drives in applications such as industrial and renewables

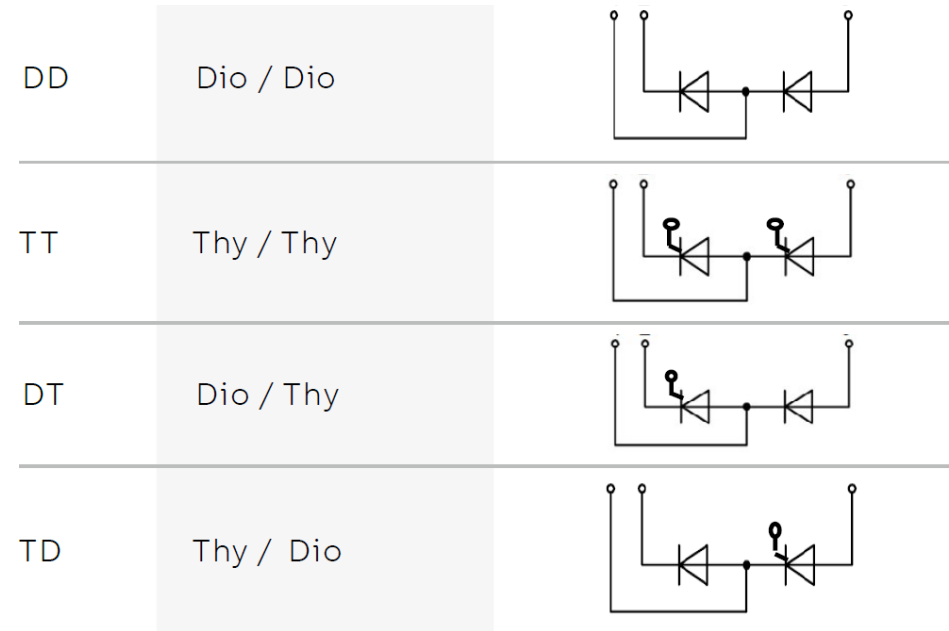
## Target ratings 60Pak

Voltage (V)	Ampere (A)	Configuration
1800 <sup>2)</sup>	542	TT, DT, TD
2200 <sup>1)</sup>	890	DD
5000	650	DD
6000	480	DD

<sup>1</sup> Product qualified

<sup>2</sup> Samples now

## Configurations





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