**SiC LinPak**
Demonstrator modules are now available

ABB Power Grids is extending the well-established LinPak family with devices based on silicon carbide (SiC) technology to deliver the highest current rating.

Semiconductors from ABB Power Grids are the benchmark for quality and performance. In addition to celebrating the delivery of the one millionth HiPak module, ABB Power Grids was the first company to launch and ramp-up production of LinPak, the new standard for high-power IGBT modules. By enabling efficient power flow in the electric trains and trams, these devices bring people to work, by allowing a reliable operation of medium voltage drives they assist in the supply of the essential water to people as well as agriculture. To further improve the efficiency of these types of frequency converters, ABB Power Grids is launching SiC based LinPaks.

**SiC LinPak benefits**
SiC LinPak devices deliver several benefits, including a massive reduction of switching losses, an increase in current density and higher maximum junction temperature. These enhancements mean power conversion system efficiency is improved, a smaller footprint is achieved and cooling requirements are much lower. The new SiC LinPaks enable increased switching frequency, significantly reducing filtering requirements. This makes the output wave curve much smoother, protecting the motor turned by the drive.

**Features SiC LinPak**
- Lowest internal stray inductance for a SiC based power module
- One module for different voltage ratings, easy paralleling with one driver and excellent current sharing
- Unmatched power cycling capability
- Easy replacement of Si LinPak similar devices – open standard
- Voltage range 1700V / 3300 V
- Operation up to 175°C
Typical applications

Typical applications for SiC LinPaks include propulsion traction converters, turbine starters in aviation, string inverters in photovoltaic applications, battery charging systems, auxiliary traction converters and uninterruptible power supply (UPS) systems.

Availability

SiC LinPaks rated at 1700 V and 3300 V are available now. Further availability of SiC LinPaks will be based on demand. Please contact us for more information.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Voltage (V)</th>
<th>Ampere (A)</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>5SFG 1800X170100 E.S.</td>
<td>1700</td>
<td>2 x 1800</td>
<td>(5) - Phase leg MOSFET</td>
</tr>
<tr>
<td>5SFG 1000X330100 E.S.</td>
<td>3300</td>
<td>2 x 1000</td>
<td>(5) - Phase leg MOSFET</td>
</tr>
</tbody>
</table>

1 Contact factory