Utility-grade electricity production

The Switch FPC+ is the full-power converter designed specifically for wind turbines. This converter platform builds on the experience of thousands of units delivered that are achieving solid performance. The affordable, state-of-the-art converter is optimized to work with permanent magnet and induction machines.

Designed for the highest level performance in electricity generation, this robust line of converters ensures future-proof electricity quality to meet the strict international requirements for harmonics, flicker and fault ride-through (FRT).

Optimal power flow control guarantees minimum losses and smooth load transitions. By reducing sensitivity to the network, FPC+ produces a seamless interaction with the grid despite the presence of severe disturbances.

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent grid performance</td>
<td>High-quality electricity production with FRT</td>
</tr>
<tr>
<td>High power density</td>
<td>Reduces number of panels needed</td>
</tr>
<tr>
<td>Compact size</td>
<td>Adaptable to match different applications</td>
</tr>
<tr>
<td>Versatile</td>
<td>Easy to configure: inline or back-to-back</td>
</tr>
<tr>
<td>Control system</td>
<td>User-friendly interface. Expandable design</td>
</tr>
<tr>
<td>Rugged IP54-class panel</td>
<td>Designed for harsh conditions and easy access</td>
</tr>
<tr>
<td></td>
<td>FPC+ 2000</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Frame</td>
<td>1 x 31</td>
</tr>
<tr>
<td>Power class [MW]</td>
<td>2</td>
</tr>
<tr>
<td>Line current [A]</td>
<td>2100</td>
</tr>
<tr>
<td>Generator current [A]</td>
<td>2300</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td>2400</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions for one panel [mm]</td>
<td>W 3106</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td></td>
</tr>
<tr>
<td>Line frequency</td>
<td></td>
</tr>
<tr>
<td>Power factor range</td>
<td></td>
</tr>
<tr>
<td>Reactive power production</td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td></td>
</tr>
<tr>
<td>Coolant temperature</td>
<td></td>
</tr>
<tr>
<td>Ingress protection class</td>
<td></td>
</tr>
<tr>
<td>Grid harmonics</td>
<td></td>
</tr>
<tr>
<td>Dynamic electric brake</td>
<td></td>
</tr>
<tr>
<td>FRT performance</td>
<td></td>
</tr>
<tr>
<td>Fieldbus connectivity</td>
<td></td>
</tr>
<tr>
<td>Remote management</td>
<td></td>
</tr>
</tbody>
</table>

Technical drawing

The modular design allows full redundancy in multi-cabinet systems. Failure of one converter cabinet does not cause significant downtime. The converter system can be operated at a lower power production rate with healthy cabinets.