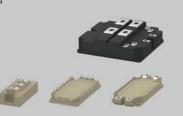


- Configured with a "6th-Generation V Series IGBT + SiC-SBD" high-performance, low-loss chip-set
- Contributes to energy savings in power conversion equipment by significantly reducing losses
- Capable of high-frequency operation allowing for reduced magnetic filter size
- · Available in a full line-up covering 600V, 1200V, 1700V, and 3300V ranges
- Compatible with previous Si-IGBT modules and packages

*Fuji Electric Hybrid SiC modules were applied in the traction converters on the N700 Series Shinkansen (a joint development with Central Japan Railway Company), and the test run for practical use has been successfully completed.



Package (typical examples)

Applications: General motor drives UPS, PCS, and etc





1. Significant Loss Reduction

Significantly reduces diode switching loss and IGBT turn-on loss, while also contributing to substantial energy savings in power converters.

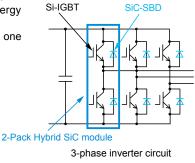
Reduce total device loss by 28%, when compared with one of our conventional inverters using Si modules^{*1}.

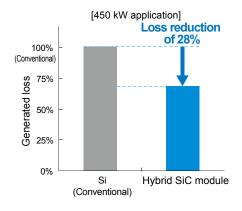
SiC-SBD wafer



2-Pack Hybrid SiC module







2. Higher Output and Smaller Footprint

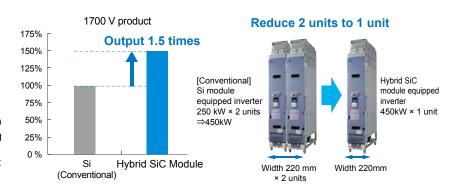
Capable of high-frequency operation and contributes to the miniaturization of peripheral components such as filters allowing for space-savings for equipment.

Capable of higher output at the same loss and size as conventional products.

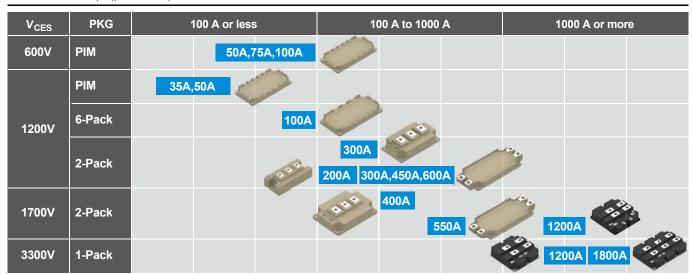


Enable capacity expansion from 315 kW to 450 kW for Fuji Electric's inverters*1 without changing the equipment size.

The resultant capacity expansion makes it possible to reduce the number of installed units.



Product lineup (planned) 3300V/1700V/1200V/600V



^{*1 &}quot;FRENIC-VG Series Stack Type (690 V Series)" large capacity inverter

Safety Precautions

- *Before using this product, read the "Instruction Manual" and "Specifications" carefully, and consult with the retailer from which you purchased this product as necessary to use this product correctly.
- *The product must be handled by a technician with the appropriate skills.

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