



IHM, IHV Modules & PrimePACK™

With the introduction of the IHM/IHV housing, Infineon Technologies established a standard for high power IGBT modules which was adopted by all well known manufacturers and used in countless applications all over the world. Under permanent load in daily demanding use of transportation applications or in rough environments like industrial inverters and also in wind turbines, the IHM/IHV modules convince with their high reliability and robustness.

The IHM/IHV product group covers all possible inverter power sizes as Single switch, Half Bridge-, Chopper and Diode modules in the voltage range from 1200 V up to 6500 V and current ratings from IC 200 A up to 3600 A.

The IHV Modules in particular provide

- Increased clearance and creepage distances for use in rough environment
- Package material with CTI up to 600
- High insulated housings for series circuits

The new PrimePACK™ IGBT halfbridge and chopper modules with internal NTC presents a specially optimized concept for integration in modern converters. The most important benefits are improved thermal properties, low stray inductance, and a wide range of operating temperatures. In combination with an advantageous interface to both, driver board and load circuitry, a powerful, compact, and modular converter concept can be realized. Infineon Technologies' years of experience and continuous innovations together with the most recent optimized chip generations for high power always offer the optimal solution.

Main Features

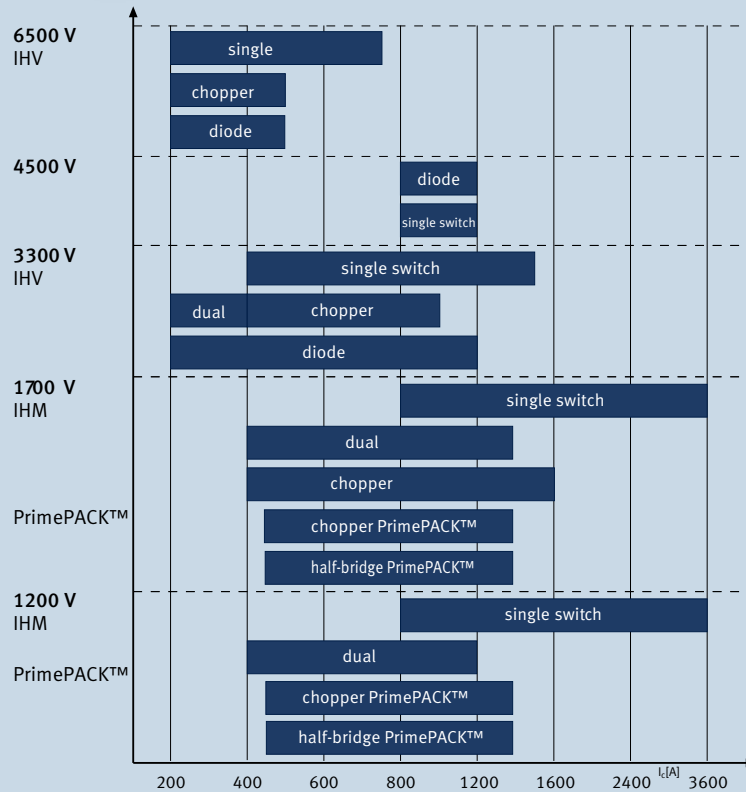
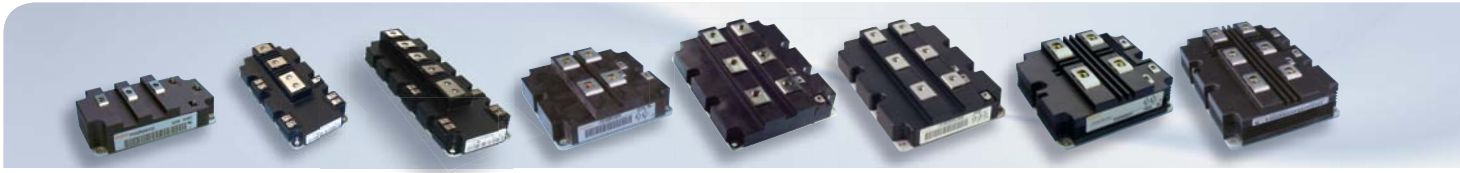
- High power density for compact inverter designs
- Wide product range for all applications
- Standardized housing
- High reliability and robust module construction
- 150°C operating temperature for PrimePACK™ and IHM/IHV B-series
- IRIS certified: International Railway Industry Standard

Applications

- Variable speed drives
- Auxiliary inverters
- Renewable energy systems
- Medical equipment
- UPS
- Welding
- Inductive heating and welding
- Trolley buses, trams, suburban trains
- Highspeed trains
- Ship drives
- Multi level inverters

High Power Modules

Product Portfolio High Power Modules



Available Module Configurations		
Infineon shortcut	Description	Circuit
FF	dual	
FZ	single switch	
FF	half-bridge	

Available Module Configurations		
Infineon shortcut	Description	Circuit
FD/DF	chopper	
DD	diode	

For detailed configurations please have a look into the corresponding data sheet.

Infineon Technologies – innovative semiconductor solutions for energy efficiency, mobility and security.

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