

Product Brief

IHM, IHV Modules & PrimePACK™

With the introduction of the IHM/IHV housing, we established a standard for high-power IGBT modules which was adopted by all well-known manufacturers and is used in countless applications all over the world. Under constant load every day in rough, demanding environments like transportation, industrial inverters and wind turbines, the IHM/IHV modules are valued for 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 1200V up to 6500V and current ratings from 200 A up to 3600 A.

The IHV modules in particular provide

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

The PrimePACK™ IGBT half-bridge and chopper modules with internal NTC offer 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. Easy separation for gate driving unit to power terminals, widely accepted driving techniques and vastly available design support solutions make these modules a preferred choice for a powerful, compact and modular converter design.

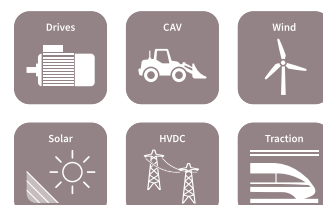
With years of experience, a steady stream of innovations and the latest, optimized chip generations, we always provide the optimal high-power solution.

Key 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

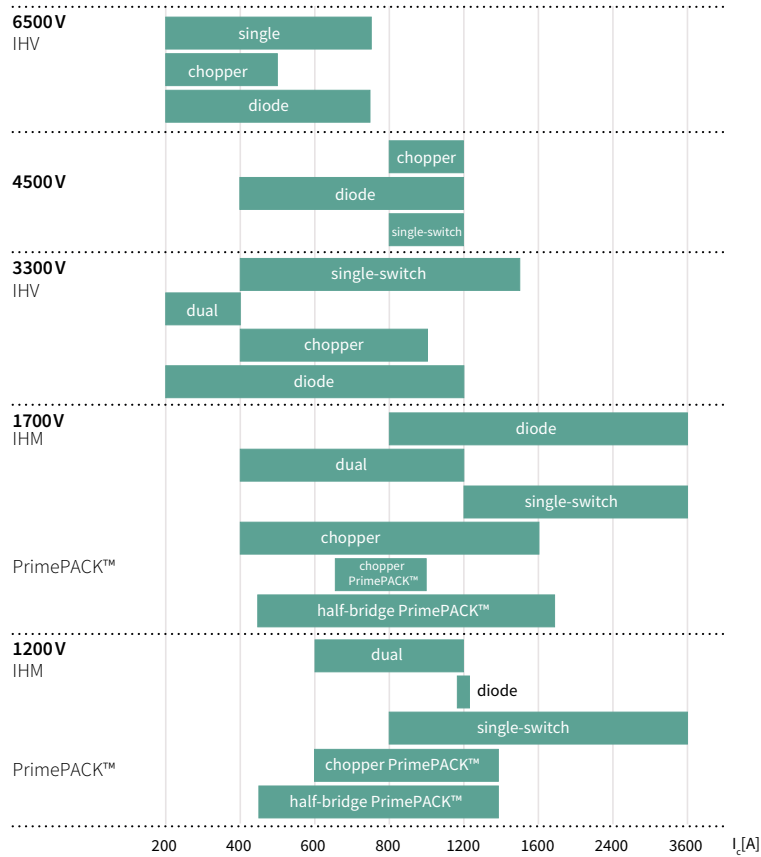
Applications

- > Variable speed drives
- > Auxiliary inverters
- > Renewable energy systems
- > Medical equipment
- > UPS
- > Trolleybuses, trams, suburban trains
- > High-speed trains
- > Ship drives
- > Multi-level inverters
- > Commercial and agricultural vehicles (CAV)



High-Power Modules

Product portfolio high-power modules



Available module configurations

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

Infineon shortcut	Description	Circuit
FD/DF	chopper	
DD	diode	

Published by
Infineon Technologies AG
85579 Neubiberg, Germany

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