

European Solar and Energy Storage Solutions

Photovoltaic inverter Infineon IGBT module



Overview

What is Infineon IGBT?

Infineon's IGBT product portfolio provides a broad variety of different devices for a wide range of applications in automotive, traction, energy transmission, industrial, and consumer systems. These solutions offer very low power losses in the forward and blocking state, only require low drive power, and have a high efficiency.

Which power modules are equipped with IGBT technology?

The well-known 62 mm, Easy and Econo families, IHM / IHV B-series, PrimePACK™ and XHP™ power modules are all equipped with the latest IGBT technologies.

How many kV can Infineon IGBTs withstand?

The IGBTs can withstand voltages up to 6.5 kV and operate at switching frequencies from 2 kHz to 50 kHz. Infineon's IGBT product portfolio provides a broad variety of different devices for a wide range of applications in automotive, traction, energy transmission, industrial, and consumer systems.

What are automotive qualified IGBT modules?

Automotive qualified IGBT module solutions are also available to support the designer's efforts in hybrid and electric mobility. Insulated gate bipolar transistors (IGBTs) are the most used power electronic components in industrial applications, offering fast switching of electric currents to achieve low switching losses.

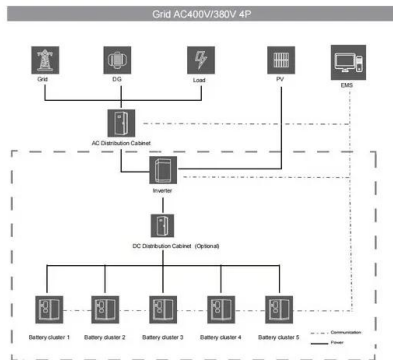
What is an IGBT transistor?

IGBTs combine the high current carrying capabilities and high blocking voltages of a bipolar transistor with capacitive, almost zero-power control of a MOSFET. IGBTs can be built to withstand very high voltages, and applications exceeding 600 V today are dominated by IGBTs.

How do I mount an IGBT module?

In addition, IGBT modules can be mounted with the help of PressFIT pins for a solder-less and lead-free mounting of power modules. Automotive qualified IGBT module solutions are also available to support the designer's efforts in hybrid and electric mobility.

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EasyPACK(TM) 4B with 1200 V CoolSiC(TM) Lead type for 350 kW

inverter modules are the mainstream solutions for 1500 V PV string inverter system > Suitable for 1500 V utility scale PV system > Suitable for different panel sizes > Variable options for ...

IGBT power modules utilizing new 650V IGBT3 and Emitter

When using standard IGBT modules, e.g. chopper modules and halfbridge modules as shown in Fig. 2, the long commutation, involves devices located in two different modules. Fig. 2. Set up ...



Infineon s comprehensive solution offering for solar central ...

Benefits. Best-in-class with 900 A/1200 V. +30% inverter output current for the same frame size. Avoidance of paralleling of IGBT modules. Simplification of the inverter systems. Reduced ...

Solution offering for 3-phase hybrid inverters in ...

Infineon Proprietary 8 String inverter Types of PV

inverter for residential and small commercial installations - String inverter convert strings of panel (series connected) DC current into ...



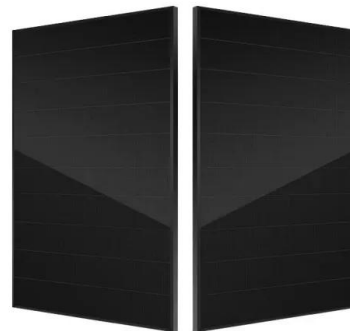
PrimePACK(TM) IGBT Modules

PrimePACK(TM) IGBT modules cover the full range of 450 - 2400 A at 1200 and 1700 V as well as the latest addition of 2300 V. The modules come in halfbridge and chopper configuration and offer a specially optimized concept for ...



Solution offering for central inverters in photovoltaic ...

Infineon Proprietary 7 PV inverter is a power conversion system to convert the DC module . solutions <20 kW. discrete . IGBT . solutions <6 kW. discrete. MOSFET. solutions. 20-40 kW. ...



Reliability Assessment of IGBT Modules in LCL -type Photovoltaic

Abstract: Reliability is critical for the efficient operation, maintenance, and cost reduction of LCL-type photovoltaic (PV) inverter. The generation of resonant currents from ...



Central inverter solutions

PrimePACK(TM) IGBT modules cover the full range of 450 - 2400 A at 1200 V and 1700 V as well as the latest addition of 2300 V. The family of PrimePACK(TM) modules has constantly evolved and features different IGBT chip generations ...



Photovoltaic Inverter IGBT Module Market Drivers and ...

El "Photovoltaic Inverter IGBT Module Market" prioriza el control de costos y la mejora de la eficiencia. Además, los informes abarcan tanto la demanda como la oferta del ...

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