2MBI1000VXB-170E-50

2-Pack IGBT Module

EXACT PUBLISHED IDENTITY

Fuji Electric 2MBI1000VXB-170E-50 is a V-series 2-Pack IGBT module in the M272 PrimePACK package. Its published ratings are 1700 V collector-emitter voltage and 1000 A collector current.

Technical snapshot

Product family	Fuji Electric V series
Module configuration	2-Pack IGBT module
Collector-emitter voltage	1700 V
Collector current	1000 A
Maximum junction temperature	175 °C
Maximum operating junction temperature	150 °C
Case temperature	150 °C maximum
Storage temperature	-40 to 150 °C

Verified related ApterPower product pages

Fuji Electric 2MBI600VXA-120E-51

Fuji Electric NP1L-TMB

Engineering data

Verified exact-model values from official manufacturer evidence

Published characteristics

Package	M272 PrimePACK
Terminal construction	Screw terminals
Published characteristics	Fast switching and low-inductance structure
Documented applications	Inverters, NC servos, UPS, wind and solar systems

EVIDENCE BOUNDARY

Verify the full 2MBI1000VXB-170E-50 identity and the approved converter design before installation; a similar voltage or current class is not sufficient evidence of interchangeability.

Verified related ApterPower product pages

ABB DSBC174 3BSE012211R1

ABB 07KR91 GJR5250000R0101

Allen-Bradley 2711P-RDT12H

Allen-Bradley 1762-L40BWA

Allen-Bradley 2711P-T10C4D1

Allen-Bradley 2711P-K12C4A8

ABB 07DI92

ABB SR511 3BSE000863R1

System role and applications

Documented contexts without configuration inference

INDUSTRIAL INVERTERS

Provides the documented 1700 V, 1000 A switching stage in an approved inverter design.

NC SERVO POWER CONVERSION

Supports high-current switching in manufacturer-approved servo-drive power sections.

UPS CONVERSION STAGES

Serves controlled high-power converter arrangements that match the module topology and ratings.

WIND AND SOLAR EQUIPMENT

Applies to renewable-energy power conversion where the exact V-series module is specified.

Integration control

Match the complete 2MBI1000VXB-170E-50 marking, circuit topology and gate-drive design before selecting the module. Installation must maintain the approved thermal interface, busbar geometry, insulation distances and clamping sequence. Following replacement, check gate signals, insulation, cooling performance and switching behavior under a controlled commissioning plan.

Technical questions

Complete answers tied to the exact published model

What role does Fuji Electric 2MBI1000VXB-170E-50 perform?

Fuji Electric 2MBI1000VXB-170E-50 performs the documented role of a 2-pack igbt module within its approved system architecture.

What published value is associated with collector-emitter voltage on 2MBI1000VXB-170E-50?

The published collector-emitter voltage for 2MBI1000VXB-170E-50 is 1700 V.

How does the documentation identify collector current for 2MBI1000VXB-170E-50?

Documentation identifies collector current for 2MBI1000VXB-170E-50 as 1000 A.

Which value should be checked for maximum junction temperature when servicing 2MBI1000VXB-170E-50?

Service personnel should check maximum junction temperature against the documented value of 175 °C.

Where does 2MBI1000VXB-170E-50 fit in the published system?

Within the published architecture, 2MBI1000VXB-170E-50 functions as the 2-pack igbt module described for the installed equipment.

Why must the complete 2MBI1000VXB-170E-50 marking be recorded?

Recording the complete marking prevents a different suffix, rating or hardware configuration from being substituted during maintenance.

When 2MBI1000VXB-170E-50 is replaced, what must technicians verify?

Technicians must verify the installed maximum operating junction temperature, mating hardware, wiring and approved configuration before energization.

Which acceptance check completes work on 2MBI1000VXB-170E-50?

Commissioning is complete only after identity, wiring, diagnostics and every affected operating function have passed the approved checks.

Product precautions

Eight controlled checks before return to service

1. Record the complete 2MBI1000VXB-170E-50 marking and installed position.
2. Discharge the DC link and prove the power section de-energized before work.
3. Verify the 1700 V circuit class, 1000 A design current and 2-Pack topology.
4. Apply approved ESD controls while handling the module and gate terminals.
5. Inspect the baseplate, thermal interface, busbars and screw terminals.
6. Use the specified mounting and terminal tightening sequence for the converter.
7. Check insulation, cooling flow and gate-drive signals before energization.
8. Commission under controlled load and record temperatures and switching results.

Manufacturer evidence used

- Fuji Electric exact-model product page for 2MBI1000VXB-170E-50.
- Fuji Electric 2MBI1000VXB-170E-50 semiconductor datasheet.
- Fuji Electric V-series IGBT module application and package information.

Verified related ApterPower product pages

ABB DI811 3BSE008552R1

ABB TU831V1 3BSE013235R1

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