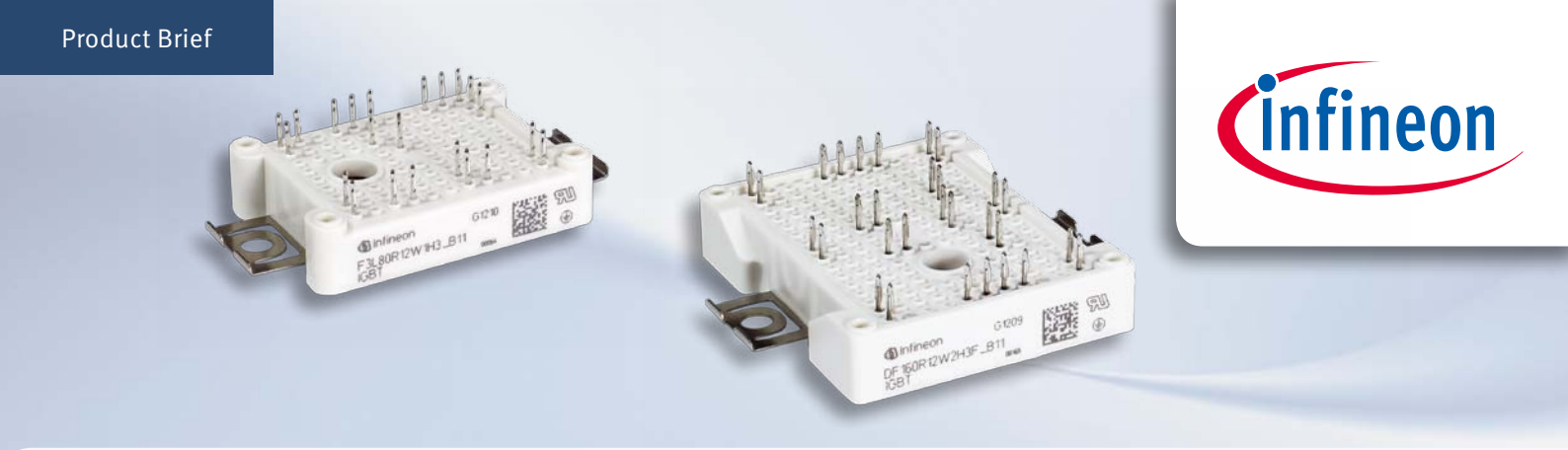
Product Brief

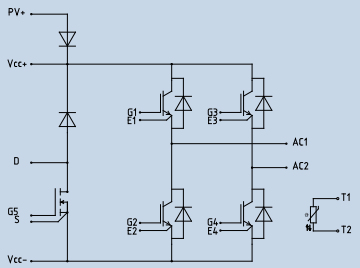


Modules

for Photo-voltaic String and Multi-String Inverters

Infineon introduces an all-new family of tailor-made modules for photo-voltaic (PV) string and multi-string inverters. Now, optimised inverter efficiency and performance can be achieved. Fast and solder-less assembly is possible using the proven PressFIT technology. Reliability at the highest level was a clear focus during development. Solutions are available for single-phase and three-phase photo-voltaic inverters.

Single-phase Photo-voltaic Inverter Modules



An entire PV inverter can be realized by using a single Easy 2B module. The modules incorporate an H bridge as well as a booster and a bypass diode. These modules are applicable for PV Inverters with:

- High max. DC voltages, as 650 V chips are used
- Wide input voltage range, as a booster is included
- Efficiency: approx. 97 %
- Reactive power capability

Advantages:

- Excellent price performance ratio
- Single standard topology
- Same mechanical layout for 50 A and 75 A module
- 650V IGBTs / Diodes / MOSFET / SiC Schottky Diode

Sales Name	Sales Product Number	Package	Description
F4-50R07W2H3_B51	SP000908430	Easy2B PressFIT	Integrated Booster / Inverter Module (1–4 kVA)
F4-75R07W2H3_B51	SP000908422	Easy2B PressFIT	Integrated Booster / Inverter Module (3–8 kVA)

www.infineon.com/string

Main Features

- Modular solution tailored for most inverter designs
- Excellent efficiency and performance
- High max. DC voltages achievable
- Wide input voltage range, as boosters are included
- Reactive power capability is supported
- Simple assembly due to PressFIT pins (solderable)

Applications

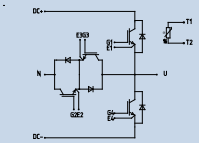
- Single-phase photo-voltaic inverters
- Three-phase photo-voltaic inverters

Three-phase Photo-voltaic Inverter Modules

Booster modules and inverter modules are available. These modules are applicable for PV Inverters with:

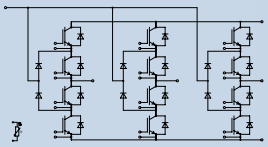
- Max. DC Input Voltage: 1.000 V
- Max. Efficiency: 98 % + x
- Output power up to: 25 kVA

Inverter Modules



Advantages:

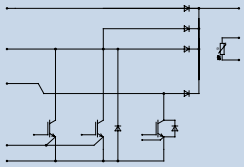
- Excellent efficiency and performance
- Full reactive power capability of PV inverter is supported
- Phase leg module for applications up to 25 kVA

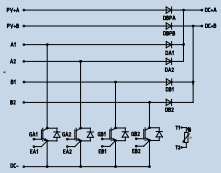


Advantages:

- Excellent efficiency and performance
- Full reactive power capability of PV inverter is supported
- Fully integrated module for 3-phase applications up to 9 kVA
- Improved switching losses vs. existing NPC1 modules

Booster Modules





Advantages:

- Excellent efficiency and performance
- 3 module types with SiC diodes available (F version)
- Up to four MPP-Trackers possible using one module

Sales Name		Sales Product Number	Package	Pin	Description
Inverter Modules	FS3L30R07W2H3F_B11	SP000944592	Easy 2B PressFIT	PressFIT	Inverter Module (7 kVA)
	FS3L50R07W2H3F_B11	SP000944582	Easy 2B PressFIT	PressFIT	Inverter Module (9 kVA)
	F3L80R12W1H3_B11	SP000908418	Easy 1B PressFIT	PressFIT	Inverter Module (25 kVA)
Booster Modules	DF75R12W1H4F_B11	SP001080544	Easy 1B PressFIT	PressFIT	Booster Module (10 kVA fast)
	DF80R12W2H3_B11	SP000948772	Easy 2B PressFIT	PressFIT	Booster Module (10 kVA)
	DF80R12W2H3F_B11	SP000908732	Easy 2B PressFIT	PressFIT	Booster Module (10 kVA fast)
	DF160R12W2H3_B11	SP000944548	Easy 2B PressFIT	PressFIT	Booster Module (20 kVA)
	DF160R12W2H3F_B11	SP000908738	Easy 2B PressFIT	PressFIT	Booster Module (20 kVA fast)

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