



**BLINK SOLAR**

# **Integrated module inverter 12v**



## Overview

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Why do inverters need more integrated modules?

With more extensive integrated modules, engineers can create more compact designs and take advantage of a proven combination of power components and gate driver circuit, the most critical elements in the inverter's design. This mitigates the risk associated with circuit design, speeds up development and slashes time to market.

What is a standard inverter bridge?

At the minimum, a standard IPM features a simple three-phase inverter bridge with a compatible gate driver. With more extensive integrated modules, engineers can create more compact designs and take advantage of a proven combination of power components and gate driver circuit, the most critical elements in the inverter's design.

What is a vector control based inverter?

A vector control-based inverter requires more effort to measure current signals. Only the power components – the input rectifier, PFC boost stage and three-phase output inverter – are integrated in PIM modules. The gate drive circuit and other logic circuits have to be mounted on the external PCB.

What is the best module for a power switch?

Depending on the application, the best choice of module for this circuit is a highly integrated IPM (intelligent power module) or a very flexible PIM (power integrated module). The IPM also has the logic components and gate drives required for power switches.

## Integrated module inverter 12v



### Intelligent Power Modules (IPMs) , NFAM3812SCBUT

The NFAM3812SCBUT is a fully-integrated inverter power module consisting of an independent High side gate driver, LVIC, six SiC MOSFET's and a temperature sensor (VTS or ...

### Intelligent Power Module (IPM) Inverter, 1200 V, 70 A

The NFAM2512SCBUT is a fully-integrated inverter power module consisting of an independent High side gate driver, LVIC, six SiC MOSFET's and a temperature sensor (VTS or ...



### Highly Integrated and Ultra Compact Power Modules

With more extensive integrated modules, engineers can create more compact designs and take advantage of a proven combination of power components and gate driver circuit, the most ...

## Pure Sinewave Inverter with Transfer Switch

Advanced SPWM modulation technology with pure sine wave output and high power quality. High power density and long life devices are selected to support long term operation at ...



## Power modules (integrated inductor) , TI

Power modules with integrated inductors and innovative packaging technology, like those that utilize our new MagPack(TM) package, are designed to enable a small solution size, ...

## Contact Us

For catalog requests, pricing, or partnerships, please contact:

### BLINK SOLAR

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