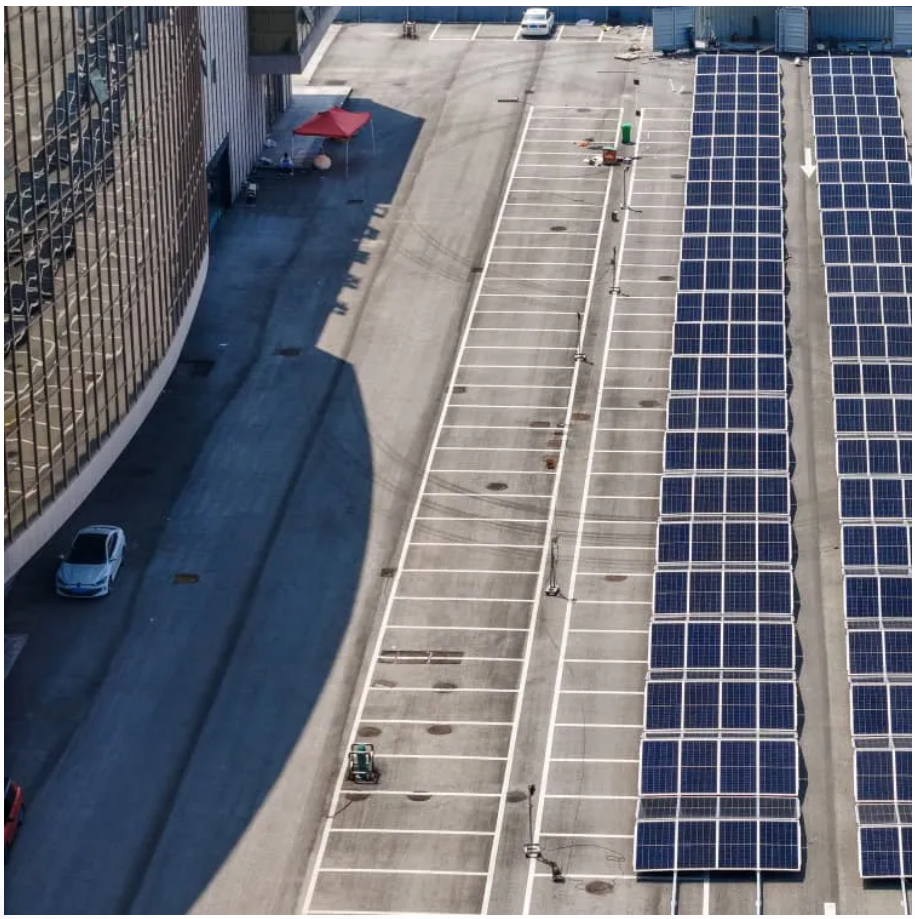
Kongres Container

# Can EG8025 be used as a 2kw inverter



## Overview

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EG8025 is a digital pure sine wave inverter ASIC (Application Specific Integrated Circuit) that uses current-mode SPWM controlling, center-aligned PWM modulation and built-in two 600V half bridge gate drivers, which is dedicated to power inverter products. EG8025 is available in an 80-Pin LQFP80.

The EGS005 board is the newest board provided by EGMicro for single phase and multiphase inverter designs. It is based on the EG8025 ASIC that features integrated MOSFET drivers for a full bridge configuration. Most if not all all of the EGS005 information is also provided in the EG8025 datasheet.

Feature highlights: EG8025 is a digital-analog integrated chip designed for pure sine wave inverters, featuring current mode and center-aligned PWM modulation. It supports SPWM carrier frequency of 20KHz, suitable for high-power MOSFET and IGBT applications. The chip integrates two 600V half-bridge.

EGD1000W_V2 is a 1000W pure sine wave inverter demo board based on EG8025+EG1611 IC solution.The rated output voltage is 220V±2%,and rated output frequency is 50HZ±0.1Hz, and rated output power is 1000 Watts, and maximum output peak power is 1200 Watts, and rated output current is 4.6 Amperes.

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LQFP80.

400V DC to 230V AC pure sine wave inverter model using LTSpice. Note : the above model has been updated for frequency/phase synchronization. please check : Single phase Inverter synchronization to mains phase using the zero crossing method and proportional / derivative control with analog. Does eg8025 Support Group Three-phase inverter?

EG8025 supports the function of group three-phase inverter, which is through AC zero-crossing signal output and synchronous phase signal input, as well as ZC (zero-crossing) signal cascade and optocoupler isolator circuit. - The full preview is over.

How does eg8025 work?

Built in four independent cycle by cycle edge-triggered shutdown logic, which can effectively prevent excessive peak current damaging IGBT/MOSFET in extreme cases. circuit protection by SD1 and SD2 pins. EG8025 provides two UART serial ports. User can set parameters or reset AC output through UART serial ports. optocoupler isolator circuit.

What is eg8025 ASIC?

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Does eg8025 have an over temperature protection function?

EG8025 has a over temperature protection function for PCB board. When TFB1’s temperature value is higher than 85℃, the output will be turned off and outputs red LED indicating. User can read the over temperature status indication through the UART serial ports. EG8025 has a over temperature protection function for IGBT. When TFB2’s temperature.

Who makes eg8025 microcontroller?

Jingjing Microelectroni. EG8025 Datasheet. Part #: EG80296SA50. Datasheet: 345Kb/40P. Manufacturer: Intel Corporation. Description: CHMOS 16-BIT MICROCONTROLLER. 1 Results.

Does eg8025 have over load protection function?

EG8025 has over load protection function. When continuous output power is greater than 1100W, the red LED on pin 26 (LEDR) starts to blink indicating. When continuous output power is off and outputs red LED indicating.

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