



WALMER ENERGY

Monaco 10kw power frequency isolation inverter





Overview

What is a amc1301 inverter?

Lower system cost is achieved by using the AMC1301 to measure motor current interfaced with internal ADC of MCU and use of bootstrap power supply for IGBT gate drivers. The inverter is designed to have protection against overload, short circuit, ground fault, DC bus undervoltage and overvoltage, and IGBT module over temperature.

How much current can a tida-00366 diode carry?

The diode must be able to carry a pulsed peak current of 11.28 A (as per Equation 11). However, the average current is much smaller and depends on the switching frequency and the gate charge requirement of the high-side IGBT. This TIDA-00366 reference design uses a 1300-V, 1-A, fast recovery diode BYG23T-M3.

How do I power the MCU from external 5V?

There is also a provision to power the MCU from external 5 V by populating components R144, C94, and C95 on the board. The sensed signals I_U, I_V, I_W, V_DC, and MODULE_TEMP are connected to ADC input pins after the RC filtering (for aliasing). 1V65_REF and 3V3_REF are also provided to ADCs for any ratiometric measurements.

Is tida-00366 a three-phase inverter?

The TIDA-00366 is designed for a three-phase inverter, but this section explains the circuits and components for one channel (U-Phase) only. The same explanation is applicable to other two channels (V-Phase and W-Phase). The current sensing is done using three shunts in-phase with the inverter outputs.



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Reference Design for Reinforced Isolation Three-Phase ...

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Reinforced Isolation 3-Phase Inverter With Current ...

Aug 25, 2023 · Design Overview This design provides a reference solution for a three-phase inverter rated up to 10 kW, designed using reinforced isolated dual IGBT gate driver ...

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May 19, 2020 · Complete isolation-type inverter technology, noiseless output. Adoption of advanced SPWM technology, pure sine wave output. Dynamic current loop control technology ...



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SEM - Grid Infrastructure - Renewable Energy Asia FAE Summit - 2018

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