
60v inverter pre-stage

How does a 3 phase inverter work?

The three-phase inverter operates from a wide input voltage range 12V to 60V and offers onboard power management that provides a 5V rail to supply the LMG2100 gate driver and 3.3V band-gap reference well a 3.3V rail for the INA241 current-sense amplifiers and temperature switch.

What is a low voltage 3 phase inverter used for?

Low-voltage 12V to 60V DC-fed three-phase inverters in the power range of 1kW are used in many applications such as collaborative and humanoid robots, automated mobile robots, automated guide vehicles (AGV), servo drives, and non-military drones.

What is a three-phase GaN-inverter reference design?

The design goal is to implement a three-phase GaN-inverter reference design, which operates from a single DC input voltage from 12V to 60V DC, nominal 48V.

Why is a 40kHz PWM inverter a good choice?

With a traditional low-voltage 48V silicon field-effect transistor (Si-FET) inverter, the switching losses at 40kHz PWM can already be significantly higher than the conduction losses and hence dominate the overall power losses. To dissipate the excess heat, a larger heat sink is required.

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