

What is an inverter generator?

Inverter generators can be light, heavy, or equipment installed in recreational vehicles (RV). Inverter generators are usually the first choice for daily power generation because they run quieter than traditional generators and help protect electronic equipment, precision equipment, etc.

How do Inverter generators work?

Inverter generators also use fuel as a power source, and the type of fuel depends on each model. They usually have a fuel gauge to display the amount of fuel, and an overheat indicator to know when the engine is above its acceptable temperature. Compared with the traditional generator, its main difference is the power generation process.

What is a bison inverter generator?

BISON inverter generator series is the result of the evolution of previous models, and has been improved based on more than five years of experience. We have a series of sixteen enclosed silent inverter generators and seven open-frame inverter generators. Cover the power range you need, from 1000W to 7500W.

What is a high power density inverter?

Weight and power density - The wide band-gap switch and powertrain integration are the key technologies enabling high-power density inverter design. The inverter power density target of OEMs continues to, for example, 100 kW/L in the US market by 2025. The use of SiC enables 800-V DC bus voltage, reduce the current rating and wiring harness.

What is a traction inverter stage?

The traction inverter stage uses a silicon carbide (SiC) power stage, driven by the UCC5870-Q1 smart gate device. A PCMC waveform is generated using the state-of-the-art PWM module and built-in slope compensation in the comparator sub-system (CMPSS).

What is a starter generator traction drive?

Starter Generator (BSG, ISG) traction drive is very similar to the inverter construction of other EVs (BEV, PHEV), but it operates on 48V voltage level. 80V and 100V MOSFETs source the DC current from 48V battery and apply AC current to motor windings. Gate Drivers create PWM signals to drive MOSFETs at required frequency.

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The block diagram below provides a high-level example of the starter generator power stage. Click "Open IBD Tool" at the bottom, to access the online interactive block diagram.

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