

Vienna 48v industrial frequency inverter





Overview

What is a pure sine wave inverter?

Rugged, heavy duty and industrial grade 3-phase pure sine wave DC/AC inverters, 24V, 48V, 125V or 250VDC inputs available. 208VAC or 380VAC or 415VAC output, 60Hz, 50Hz, or 400Hz, 9000 watts. Pure sine wave output exactly duplicates mains power. Extra heavy filtering to isolate noise from equipment sharing the same battery.

What is a high efficiency Vienna Rectifier?

This high efficiency Vienna rectifier is designed for several end applications such as electric vehicle (EV) and industrial battery chargers, and industrial equipment requiring very high PF and low THD. You might also like.

Which diodes are used in the Vienna Rectifier?

In the Vienna rectifier, we selected SiC diodes with a blocking voltage of 1.2 kV and 30 A, rated for D1 and D2, and 60-mΩ and 650-V SiC metal-oxide semiconductor field-effect transistors (MOSFETs) for Q3 and Q4 (see Figure 40). Switching at 95 kHz achieved the target loss. Figure 40.

What is the difference between T-type converter and Vienna Rectifier?

The T-type converter and Vienna rectifier have higher efficiencies compared to two-level converters because the switches are presenting lower switching losses thanks to the half switching voltage. At higher loads, the T-type converter shows superior performance thanks to the synchronous rectification feature.



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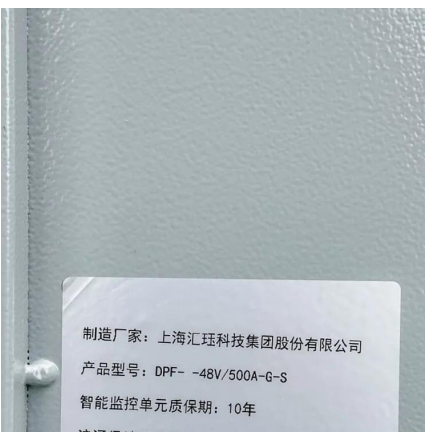


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[Industrial 48V inverter, 800W o DWE](#)

Nov 14, 2025 · The DY800-DA50 is an industrial 48V inverter of 800W. The inverter can convert 48V to 230V AC and supply a power of 800W.



[STDES-VIENNARECT , Product](#)

The high switching frequency of the SiC MOSFETs (70 kHz) and the multilevel structure allow nearly 99% efficiency as well as the optimization ...



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[STDES-VIENNARECT, Product](#)

The high switching frequency of the SiC MOSFETs (70 kHz) and the multilevel structure allow nearly 99% efficiency as well as the optimization of passive power components in terms of size ...



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