Dual-blade AC generator

What is a double-blade triboelectric-electromagnetic hybrid generator?

A double-blade structured triboelectric-electromagnetic hybrid generator is proposed. The double-blade structure can improve aerodynamic performance and can be used as a TENG unit. The DB-TEHG converts wind energy into electricity output with an efficiency of 20.88%. Wind energy is a form of renewable energy with excellent development prospects.

Is a dual-stator generator suitable for wind applications?

This study proposes a novel dual-stator generator for wind applications, resolving two critical challenges: wind energy curtailment and increasing thermal energy demand. The key contributions are as follows:

Can a 2-pole Dax air-cooled generator be driven by a gas turbine?

Our BRUSH(TM) Power Generation 2-pole DAX air-cooled generators can be driven by steam or gas turbinesproviding power outputs from 20 to 310 MVA (including BDAX with brushless excitation control,and YDAX with brushed/static excitation control).

How do triboelectric nanogenerators and electromagnetic generators work?

The improved blade structures directly drivethe triboelectric nanogenerator (TENG) and electromagnetic generator (EMG) without requiring additional transmission systems. The blade parameters are simulated and optimized using computational fluid dynamics to enhance the wind energy harvesting capability of the device.

A flexible wind power generation and heating technology is proposed, and a novel dual-stator generator with electrical-thermal flexible output is proposed, which has the advantages of ...

This VULCAN® OUTLAW(TM) 6000 Watt Dual-Voltage Engine-Driven Inverter DC Arc Welder/AC Generator uses inverter technology to deliver 195 amps max. DC welding output for smooth, high ...

High-speed, high-power-density generators capable of being directly coupled to a gas turbine engine are needed in the multimegawatt class for power generation aboard hybrid-electric ...

Consequently, there exists a compelling need to develop efficient TENGs for capturing breeze wind energy. In this study, we present a novel blade-type triboelectric-electromagnetic hybrid ...

The improved blade structures directly drive the triboelectric nanogenerator (TENG) and electromagnetic generator (EMG) without requiring additional transmission systems. The blade ...

C. Mechanical Design of BLDC-based AC Generator The BLDC generator utilized in the system incorporates neodymium magnets, stator coils, and rotors in its mechanical architecture.

These 2-pole DAX air-cooled generators are well suited for any steam or gas turbine or turboexpander up to 350 MVA, and deliver up to 98.8% efficiency.

Dual-blade AC generator

In this study, we present a novel blade-type triboelectric-electromagnetic hybrid generator (BT-TEHG) constructed from blade-type TENG units and a rotating disk electro-magnetic ...

A multi output device is designed using two pairs of TEGs to generate AC output and dual DC outputs to supply power for IoT applications. The device output is thoroughly characterized by ...

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