

**Espay Solar Energy S.L.**

# **Wind needle generator**



## Wind needle generator

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### **Numerical and experimental study of heat-transfer characteristics ...**

This study provides a potential solution for commercial chip cooling with needle-to-ring-type ionic wind generators.

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### **Ionic wind induced by elementary needle-ring structure under varying**

In this study, a needle-ring ionic wind generator is used to clarify the variations and their internal correlation mechanisms of the transient, volt-ampere, and wind-velocity output ...



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### **Ionic wind velocity and energy efficiency improvement in needle-net**

Ionic wind produced by high voltage discharge has been proved as a promising technique in heat dissipation, food drying, electrostatic precipitation and air propulsion. On the other hand, the low wind ...



## Electrohydrodynamic and heat transfer characteristics of a planar ionic

In this study, a planar ionic wind generator with two flat electrodes was investigated numerically and experimentally to reveal its electrohydrodynamic and heat transfer characteristics.



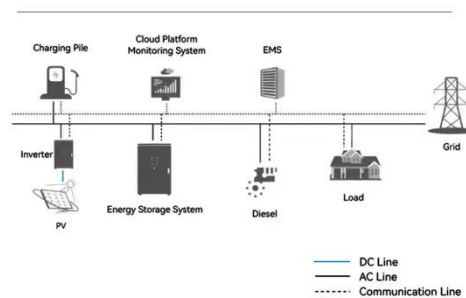
## The heat dissipation by the multi-needle electrode structure ionic wind

In this paper, an ionic wind generator, constructed with needle-net electrode structure and powered by high-voltage positive dielectric current (DC) power supply, is built for cooling of a ...

## Experimental Investigation on Flow and Heat Transfer

In order to study the cooling performance of ionic wind on a Light Emitting Diode (LED), an ionic wind generator with a needles-ring electrode configuration was set up.

### System Topology



## Experimental and Numerical Investigation of a Needle-Ring Type of ...

Experimental and numerical



investigations are conducted to determine the operational characteristics of a needle-ring type of ionic wind generator for the case when it acts alone and for ...

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### **Multi-needle-ring type ionic wind generator for thermal management**

A needle-to-ring type design of ionic wind generator is of special importance due to the high permeability of the collector electrode, the flexible adjustment of the ring electrode, and the ...



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