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Solar Energy South Africa

Solar power rotor

Overview

What is a solar-powered multi-rotor?

All of these utilise fixed-wings, and most are designed for high altitude long endurance missions. The first solar-powered multi-rotor began development in 2011 and first flew in 2012, utilising a charge controller, solar panel, and battery 6.

What is a helical rotor pump?

Helical rotor pumps only have two main parts: stator and rotor – the stator is made of abrasion resistant rubber in a stainless steel stator housing, the rotor is made of solid stainless steel. This design makes it very robust and gives the pump a long operational life.

Can a solar-powered quadcopter fly a rotary-winged aerial vehicle?

The M:Tech quadcopter is one of the smallest commercially available systems in the MAV class and is analysed here as an indication of the applicability of solar-powered flight of a rotary-winged aerial vehicle at this scale. Its electrical power consumption at hover was measured to be approximately 3.57 W.

Can solar power a rotary wing aircraft?

Advances in photovoltaic technologies have resulted in significant increases in the specific power (power-to-weight-ratio) of solar cells enabling the design of solar-powered rotary-wing aircraft, and now micro-sized variants.

Can a multi-rotor fly with solar power?

The Solarcopter project demonstrated the potential of solar power in multi-rotors by proving that a quadrotor design can fly utilising the sun’s power directly. Other examples of solar-powered multi-rotors include those developed by Lachica et al. 8, Pramod 9, and by students at the National University of Singapore 10, 11.

What is a Lorentz helical rotor pump?

The LORENTZ (HR) helical rotor pumps are designed to be both efficient and robust. The HR helical rotor pumps are a positive displacement pump, the rotor has an eccentric movement which when rotating inside the stator effectively squeezes water through the pump on every rotation.

Solar power rotor

Impact on rotor angle stability with high solar-PV generation in power ...

1 Abstract-This paper investigates the impact on rotor angle stability (both small-disturbance and transient rotor angle stability) with high penetration of solar-PV generation in power networks.

Solar Guard - Squad with Power Axes and Rotor ...

The infantry squad of the Solar Guard consists of 8 soldiers, a radio operator and a sergeant. Each unit is armed with a Power axe and Rotor cannons. Scaled for 28 mm tabletop. Update February 23, 2024 - Additional ...

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