

In one study, a NaF-NaCl salt PCM system, with a melting point of 680 °C and a latent heat of fusion of 572 kJ kg⁻¹, was utilized and connected to a Stirling engine through either a sodium ...

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Abstract - A dynamic model of a high-power Stirling convertor has been developed for space nuclear power systems modeling. The model is based on the Component Test Power Convertor (CTPC), a 12.5-kWe free-piston Stirling convertor. The model includes the fluid heat source, the Stirling convertor, output power and heat rejection.

As a step towards development of Stirling power conversion for potential use in Fission Surface Power (FSP) systems, a pair of commercially available 1-kW-class free-piston Stirling convertors were modified to operate with a NaK (sodium (Na) and potassium (K)) liquid metal pumped loop for thermal energy input. This was the first-ever attempt at powering a free ...

generation units, solar-dynamic power conversion, and nuclear dynamic power conversion. They are typically used in applications which benefit from high efficiency or in systems that require closed cycle operation. High efficiency and closed-cycle operation are both requirements of many space power systems, making free-piston Stirling engines

qualification. The substitution of free-piston Stirling power conversion should not appreciably affect this estimate. Stirling Power Conversion Approach The Stirling-based system concept is shown in Figure 1. The system is sized to produce 3 kWe with the 13-kWt reactor, a factor of three increase in power compared to the thermoelectric system.

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This book provides an up-to-date reference on the technology, history, and practical applications of Stirling engines, including recent developments in the field and a convenient survey of the Stirling engine literature. The topics of the book include: fundamentals of Stirling technology, definition and terminology, thermodynamic laws and cycles: some elementary considerations, ...

Abstract: In order to meet the needs of small modular nuclear power plant for the type selection, demonstration and overall evaluation of new power conversion technology, this study focuses on the free piston Stirling power conversion technology and the key technical problems in engineering application, comparing and analyzing the typical application concepts of the ...

???: ??, ??????, ??????, ??, ??, ??, ???, ??? Abstract: Based on the 1 kW ?-type dish solar Stirling power generation system, a three-dimensional ...

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: Stirling space nuclear power system ; space power system ; nuclear power ; converters 16. PRICE CODE 17. SECURITY CLASSIFICATION OF REPORT 18. SECURITY CLASSIFICATION OF THIS PAGE 19. SECURITY CLASSIFICATION OF ABSTRACT 20. LIMITATION OF ABSTRACT NSN 7540-01-280-5500 Standard Form 298 (Rev.2-89) Prescribed by ANSI Std. ...

Exhaust Heat Recovery Stirling Engine. YANMAR Technical Review: Development of Zero-Emission Generating System "Stirling Engine" (January 27, 2017) Main parts of the Stirling engine. Exhaust heat recovery engine is a beta type stirling engine which has both displacer and power piston in the same cylinder.

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