



Press Release

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Sky Power equips Nimkii 42-S from Sky Canoe with propulsion units

The Nimkii 42-S (N42-s) built by the Canadian UAS-manufacturer Sky Canoe is an unmanned aerial system designed for long-range missions and can cover distances of up to 353 kilometers. Sky Canoe is an Indigenous-owned Canadian company that develops and manufactures advanced, low-emission, long-range unmanned cargo aircrafts. The aircraft are specifically designed for the harsh conditions of northern Canada and offer endurance and reliability, especially in winter conditions. Sky Canoe's UAS aims to improve the quality of life in Indigenous communities by promoting economic development and local employment opportunities while incorporating sustainability and environmental protection. This includes the faster, safer and more cost-effective delivery of essential goods, food and medical supplies compared to traditional transportation methods.

The N42-s UAS has a wingspan of 2.1 meters, a length of 1.5 meters and a height of 0.6 meters. It reaches a speed of 101 km/h, has a flight duration of 3.5 hours and can carry a maximum cargo weight of 9.2 kilograms. These features make the Nimkii 42-S a versatile platform for various applications, including safe and remote monitoring of critical infrastructure, forest fire observation, wildlife management and efficient delivery of cargo to areas with limited infrastructure or small runways or airfields. The Nimkii 42-S is powered by an SP-55 FI TS ROS from Sky Power International. The SP-55 FI TS ROS is a single-cylinder internal combustion engine with a displacement of 55 cm³, which delivers an output of 3.0 kW at 7000 rpm. It has a dual ignition system and fuel injection. With a weight of 2.76 kg without additional components and a torque output of 4.8 Nm at 5500 rpm, it is designed for use in unmanned aerial vehicles.

The developers of the Sky Canoe see a strong market in inaccessible areas, such as the densely forested regions of Canada. This is why the Nimkii 42-S is designed for the harsh conditions of northern Canada and can also be used in temperatures below zero (down to -35 °C). To ensure secure communication, the Nimkii 42-S is equipped with the KCI™ system, which offers a high level of protection against hacking and maintains contact even if one type of signal (i.e. radio) is no longer available during the flight. In addition, the aircraft has advanced "Detect and Avoid" functions that enable it to detect birds, UAVs and Aircraft, and perform evasive maneuvers if necessary.

About Sky Power

Sky Power International is a leading manufacturer of 2-stroke combustion- and Wankel engines for UAS (Unmanned Aerial Systems) and hybrid applications. Besides in-house development and manufacturing, Sky Power International produces all engines in Germany. Custom adaptations, new developments and continuous performance improvements of the combustion engines are ongoing company objectives. More information: www.skypower.online

Picture captions:



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Deeplinks:

- <https://skycanoe.ca/nimkii-42-s/>
- <https://skypower-international.com/product/sp-55-fi-ts-ros/>

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