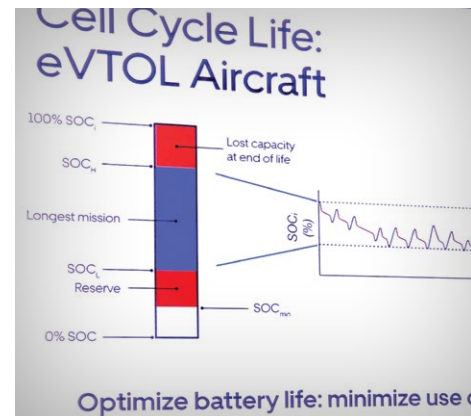




CUSTOMER STORIES

eVTOL APPLICATIONS DEMAND UTMOST PERFORMANCE IN A RELIABLE, LIGHTWEIGHT, AND COMPACT FOOTPRINT



Our sensing solutions provide exceptional flexibility in capturing essential information for pioneers in next-gen aviation solutions

CHALLENGE

Many innovators in eVTOL aircraft are in a demanding “proof-of-concept” phase in their company’s lifecycle. With prototypes ready, these engineering teams are busy turning great designs into viable commercial-scale products. This requires versatile, intelligent sensing components that offer uncompromising performance in demanding physical environments—without adding much weight.

SOLUTION

The Isabellenhütte team is working with several innovators to achieve the technical and commercial objectives of their battery/power systems. Smart sensing solutions such as our IPC-CII, IVT-S and ICD-A products have been incorporated into eVTOL aircraft to deliver programable, high current and voltage sensing capabilities. IVT-S offers a current measurement range of up to 2,500 A and a voltage measurement of up to 1,000 V. Using a CANbus 2.0 interface, additional functions can be implemented, such as the temperature measurement of the busbars, overcurrent detection and other performance data. IPC-CII is a fully calibrated phase current sensor that offers high precision and low offset in a compact and lightweight shunt-based design. ICD-A is a compact, shunt based solution offering 12V-48V current sensing.

APPLICATION

eVTOL aircraft designed to perform a variety of missions including: commercial and private sector transportation (personnel), logistics/cargo, defense, and emergency response services