

Bristell B23 Energic

e-powered by 



First to be Certified Part-23 Electric Trainer and General Aviation Aircraft

European Aircraft Deliveries Starting in 2026 - EASA CS-23

Introducing the Bristell B23 Energic

Powered by H55's electric propulsion system—manufactured in semi-automated high-tech, regulatory-approved facilities in Switzerland and Quebec—the B23 Energic benefits from superior quality and cutting-edge engineering. This aircraft offers a quieter, cleaner and seamless flying experience without compromising performance. It redefines the standard for flight schools and private pilots seeking a safe, reliable, and economically advantageous aircraft. Built for operational excellence, the Bristell B23 Energic sets a new benchmark for pilot training aircraft.

8-12 EUR
Energy Cost

Average electricity price versus
60–90 EUR of fuel per hour.
Taxi and run-up ~0.5 EUR in
electricity vs. ~9 EUR in fuel

1/10th
of the Noise Intensity
versus piston aircraft

10-15 dB quieter and indiscernible
from ambient background noise as
measured from 1,500 ft AGL

0
Emissions

No carbon nor lead emissions
leading to a significant
environmental footprint reduction



Enhanced Comfort and Flying Experience

The Electric Propulsion System (EPS) delivers a near noise-free and vibration-free flight, creating a remarkably calm and quiet cockpit environment. This smooth, low-stress experience is enhanced by a spacious, ergonomic cockpit featuring excellent visibility, an intuitive control layout, and adjustable seating that preserves the pilot's line of sight. Together, these elements provide an exceptional flying experience and a superior learning environment for student pilots, while also serving as an ideal solution for airports operating under strict noise and environmental regulations.



**+100 Aircrafts
SOLD**



Climate Resilient, Operationally Consistent Across Different Environments

Demonstrated performance at high density altitude of 9,524 ft with 36°C / 97°F achieving 500 ft/min climb. No signs of battery degradation despite high and low ambient temperatures, up to 40°C / 104°F and down to 0°C / 32°F.

Reliability

Over a period of five months of intensive operations, the aircraft completed 70 flight hours and nearly 200 passenger demonstration flights—without any noticeable degradation in battery health or overall aircraft performance. This demonstrates the system's reliability, durability, and readiness for sustained real-world use.

Pilot-Friendly Simplicity

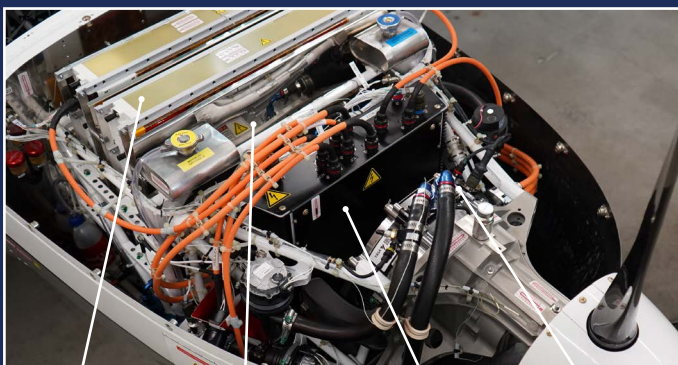
With no oil changes, fouled spark plugs, faulty magnetos, or shifting weight from fuel burn, the electric powertrain removes many of the complexities associated with traditional aircraft maintenance—making flying simpler and more accessible.

Ground Efficiency

Block time closely matches flight time thanks to the elimination of engine run-up and warm-up procedures, along with a streamlined pre-flight checklist. This means faster turnarounds and more efficient operations.

Easy Charging

The aircraft supports standard DC CCS automotive charging, ensuring compatibility with widely available infrastructure for convenient, reliable energy access.



Battery pack

Power and protection
distribution unit

Motor controller

Motor



Power
control

Power
management
interface

Energy
management
interface

Aircraft

Performance

70 minutes of endurance, including reserves ¹
(+/- 10 percent)

Standard pilot training mission: 6 flight circuits ²

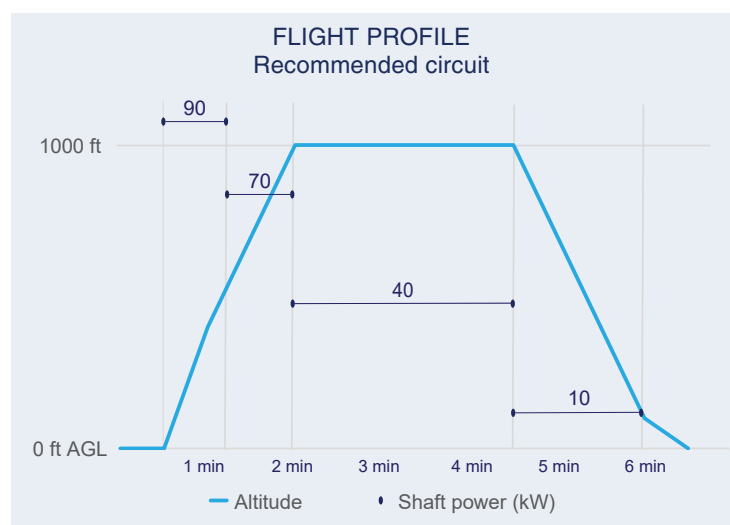
Payload: 180 kg

Climb rate (at MTOP): 800 feet/min ³

Stall speed: 87 km/h - 47 Kts ⁴

Max cruise speed (at MCP): 200 km/h - 110 Kts ³

Charging time: 1:1 ratio use/charge time ⁵



Equipment

Motor and energy data display

Flight display: dual Garmin G5, attitude, airspeed, altitude, side slip and magnetic heading including backup battery

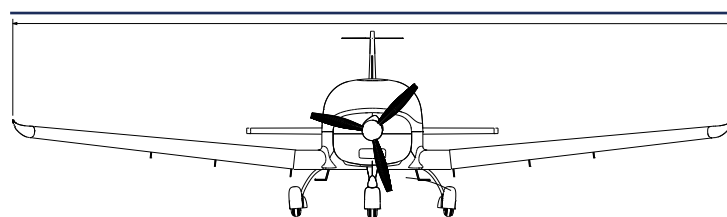
NAV-COMM & Transporter: Latest Garmin Suites

Angle of attack indicator: Garmin GI260

Flight controls on sticks

RPM, clock and voltage/current indicators

Dimensions



Wingspan 9.27 m

Wing area 11.75 m²

Cabin width 1.3 m

Aircraft length 6.585 m

Aircraft height 2.36 m

Electric Propulsion System

Technical Parameters

Single motor with redundant dual channel propulsion, MTOP 90 kW / 104 kW available ⁶, MCP 80 kW, liquid cooled

53 kWh of energy ⁷

Rechargeable lithium batteries distributed in two redundant packs permanently installed

1500+ flight hours, depending on usage

Warning panel for vital battery and propulsion parameters

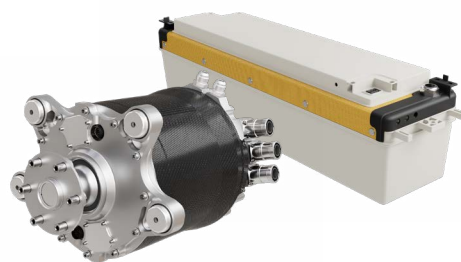
Charging Parameters

Input voltage: 3 phase 400V 50Hz

Input current: 32A or 63A ⁵

Output voltage: 800V

Possibility to use commercially available CCS-2 DC charger station satisfying above conditions



¹ at recommended take-off power

² based on traffic pattern illustrated in the graph

³ as tested in the current prototype

⁴ a marginal increase is expected due to the increased MTOW

⁵ charging time depends on environmental conditions and charger performance

⁶ Recommended for grass runway only

⁷ Considering gen 2 battery modules

Bristell and H55 Leading the Way to a New Era in Aviation

H55

The Pioneering Spirit of Solar Impulse Lives On



H55's leadership in electric flight, paired with Bristell's proven excellence in aircraft manufacturing, is setting new standards in general aviation. Their partnership is embodied in the Bristell B23 Energic—powered by H55's state-of-the-art electric propulsion system—not just as an aircraft, but as a symbol of a shared commitment to safety, efficiency, and performance. Together, they are propelling aviation toward a net-zero future while delivering a distinctive flying experience defined by comfort, simplicity, and style.

H55 was born from the groundbreaking Solar Impulse project—the first electric aircraft to circumnavigate the globe powered solely by the sun and electric motors. With over 20 years of innovation, patented technology, and proven flight experience, H55 delivers quieter, cleaner, more efficient and affordable air transport solutions.

As a leading enabler of electric aviation, H55 delivers modular, lightweight, and certified electric propulsion and battery management systems. The company offers a turnkey solution that goes beyond high-performance, certified batteries and propulsion units—it also includes comprehensive support in system architecture, requirements definition, certification, and aircraft integration.

H55's scalable technology is designed for a broad range of Part-23 applications and can be integrated into both existing aircraft and next-generation platforms, including VTOLs and electric commuter planes. Backed by an ambitious R&D and battery chemistry roadmap, H55 is developing solutions for higher-performance aircraft, aligned with future certification standards for passenger commuter categories.

Bristell

A Family Company With Wings And Heart



Founded in 2009 by the father-and-son team behind Bristell, BRM AERO is a Czech aircraft manufacturer specializing in general aviation aircraft. Producing over 100 aircraft annually, the company has grown to a team of 130 employees and established a presence in 26 countries worldwide.

BRM AERO has achieved both EASA CS-23 and FAA Part-23 certifications for its B23 aircraft. With more than 1,000 aircraft delivered globally, the company combines comprehensive in-house production capabilities with a strong international footprint. BRM AERO remains committed to innovation, delivering high-quality aircraft tailored to the evolving needs of modern aviation.



H55 SA
1950 Sion
Switzerland



H55.CH



BRM AERO s.r.o
686 04 Kunovice
Czech Republic



Bristell.com