



Plug&Play Electric Propulsion System

Special features:

Pipistrel's Electric propulsion system is a true plug&play solution for electric aircraft.

You receive everything you need: the motor, power controller, battery system complete with BMS and a lightweight airborne charger, complete with an advanced color display cockpit instrument, which provides you with full control.

The system also supports propeller positioning and automatic retraction for self-launching glider applications!

ESYS-MAN - the cockpit instrument

High-resolution sunlight readable color display and control interface. Displays all system temperatures, controls RPM/Power with automatic over-temperature protection, charge indicator, charge status overview, battery health overview, visual and acoustic warnings, system enable/disable, support for propeller positioning and automatic retraction (self-launch gliders).

DC/DC converter

Your aircraft will never run out of battery power for instruments. The on-board DC/DC converter takes the energy from the main battery system and converts it to

12 V for cockpit equipment. There is no need for a second avionics battery!

CANbus

A special kind of communication network which all components use for information interchange. The level of safety and functionality is greatly improved!

Propeller

Composite lightweight 2-blade propeller, diameter 165 cm, specially optimised specially to take advantage of the electric motor characteristics. Classic propeller designs do not come even close!

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Includes:

- > Batteries in different configurations, complete with BMS, built in protections
- > Dedicated Lightweight Airborne Charger with smart logic
- > 40 kW (takeoff) high-efficiency electric motor
- > High-efficiency power controller/inverter
- > Communication & DC/DC Module
- > Cockpit instrument/manager ESYS-MAN
- > Advanced CANbus communication between units
- > Datalogging
- > Optimised composite propeller, diameter 165 cm

Technical specifications:

Battery capacity (light configuration)
Battery capacity (full configuration)
Battery Management System (BMS)

4.75 kWh
7.10 kWh
Integrated, high accuracy with datalogging and battery failure prediction.

Airborne charger

Supports all voltages 110 VAC and 240 VAC, 1.2 kWh, typical charge time 4 hours.

Battery voltage
Maximum operating temperature
Minimum operating temperature
Electric motor power

190 V -270 V
70° C
5° C
High efficiency outrunner, synchronous 3-phase PEM
40 kW (1 min), 30 kW continuous.

Max. RPM
System weight

2200 RPM
59 kg (light configuration)
75 kg (full configuration)



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