

#WeFlyDiamondAircraft

 **Diamond**  
AIRCRAFT



# **DA40** **All-Electric Aircraft**

From less to zero emissions,  
from quiet to almost silent!

# Changing the future of flight

The eDA40 shall be the first EASA/FAA CS/Part 23 certified electric airplane in its category. With DC fast charging offering short turnaround times, it is an exceptional sustainable aircraft for the flight training market of tomorrow.

“The testing of the all-electric eDA40 is an important step towards future pilot training in an even more environmentally friendly manner.” Matthias Spohr, CEO Lufthansa Aviation Training

The eDA40, a derivative of the existing and certified DA40 series, shall be the first certified electric airplane in its category and the greenest way of learning to fly:

- ✓ VFR and IFR capable
- ✓ Net zero Emission during Flight
- ✓ Plug & play in the Diamond Flight School Solution with similar control and cockpit layout to DA40 NG
- ✓ Reduced noise
- ✓ Lower operating costs
- ✓ 2- or 3-seater configuration with dual controls (Initially as a 2-seater. As battery capacity develops the eDA40 will be available as an optional 3-seater.)



**1.2 HOURS** **2-3 SEATS**

**397 LBS** **117 NM**

## Propulsion & Avionics

# All-electric power & top-notch avionics

### Electric Motor

The SAFRAN ENGINEneUS™ Aircraft Electric motor is a state-of-the-art self-contained direct drive 125 kW propulsion system offering very high operating efficiencies exceeding 94%. The dual winding/controller architecture offers an enhanced reliability and safety, similar to twin-engine aircraft, on a single engine aircraft platform. The air cooling guarantees an easy to maintain, simple and cost efficient cooling system.



### Flight Deck

The eDA40 fully integrated Garmin G1000 NXi flight deck offers superior situational awareness, convenience and safety.



# Charged by Electric Power Systems

The eDA40 will have Electric Power Systems' EPiC™ technology dual string battery system installed that includes: multiple segregated battery modules, high voltage battery power management units, service disconnects, high voltage power distribution and charge interface. Electric Power Systems' Direct Current (DC) fast charging system is capable of turning around a depleted aircraft in under 20 - 30 minutes.



## Training Concept

# Sustainable Flight Training

### Fleet Commonality

The eDA40 will be the perfect add-on to your flight school concept: The eDA40 can be used for the first phase of pilot training, circuit training and for all flights in the vicinity of the airfield while the DA40 NG is the ideal aircraft for longer cross-country flights which require more endurance and range.

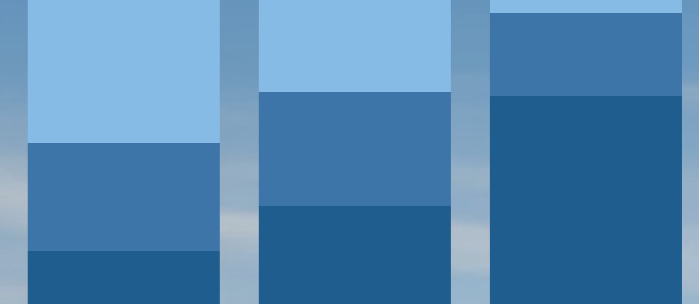
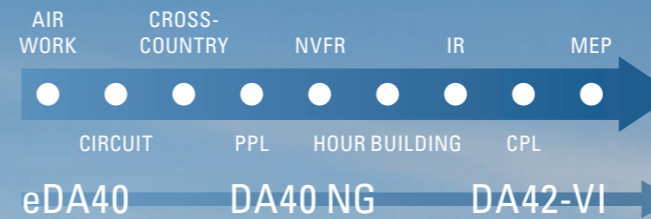
With a fleet consisting of the all electric eDA40 and the jet fuel powered DA40 NG and DA42-VI you fly as eco-friendly as possible - All-electric aircraft have net zero emission during flight. Jet fuel engines have much lower emissions compared to leaded or even low leaded aviation fuels and save many gallons of fuel and money as they will burn up to 50% less at equal power.

### Low Cost of Operation

Creating an eco-conscious and cost effective option for the training market has always been at the core of Diamond Aircraft.

The eDA40 operating costs are expected to be reduced by over 35% compared to traditional piston aircraft.

**OVER 35% OPERATING COST REDUCTION**



eDA40    DA40 NG    DA40 XLT

■ FUEL   ■ OVERHAUL   ■ MAINTENANCE



# eDA40 Preliminary Technical Specifications

## Power Plant

Motor 125 kW SAFRAN Electrical & Power ENGINEUSTM 100  
 Battery 80 kWh EPiC Power battery by Electric Power Systems (EPS)

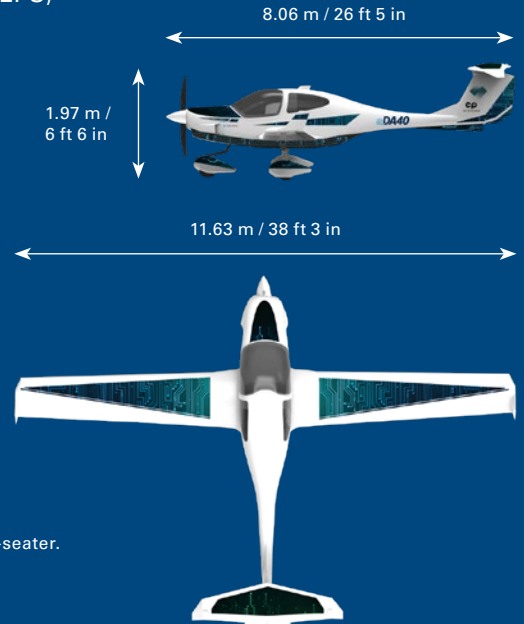
## Performance

Battery\* 80 kWh  
 Endurance\* 74 min incl. reserves  
 Range (as a function of endurance)\* 117 nm 217 km  
 Payload\* 397 lbs 180 kg

## Mass and Loading

Seats\*\* 2-3  
 Empty weight\* 2,491 lbs 1,130 kg  
 Useful load\* 397 lbs 180 kg  
 Max. take off mass 2,888 lbs 1,310 kg

\*Calculated, preliminary technical specifications.  
 \*\*Initially as a 2-seater. As battery capacity develops the eDA40 will be available as an optional 3-seater.  
 The above data are approximately specifications and may change without notice.



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