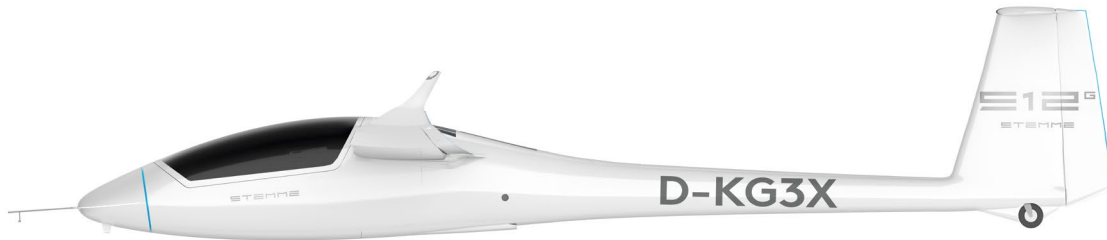


# S12<sup>G</sup>

SIMPLY AWESOME.  
THE NEW STEMME S12-G. UNPARALLELED IN ITS KIND.



## ENGINE

ROTAX 914 F2/S1 TURBO

Maximum take-off power (MTO):  
84,5kW

Maximum continuous power (MCP):  
73,4kW

Time between overhaul (TBO):  
2,000 hrs or 15 years

Fuel grade: MOGAS (min. RON95),  
AVGAS UL91 or AVGAS 100LL

## DIMENSIONS

Wingspan:  
25m (82ft), optional 21,7m (71.2ft)

Folded wingspan:  
11,4m (37.4ft)

Wing area:  
19,95m<sup>2</sup> (214.7ft<sup>2</sup>), optional 18,6m (200.2ft<sup>2</sup>)

Length:  
8,42m (27.6ft)

Height:  
1,75m (5.74ft)

## WEIGHTS & CAPACITIES

Maximum take off mass (MTOM):  
900kg (1,984lb)

Tank capacity:  
2 x 60 Liter (15.85 US gal) wing tanks and  
6 Liter (1.58 US gal) feeder tank

## PROPELLER

STEMME FOLDABLE - two blade prop with  
2-position variable pitch (T/O and Cruise)

Mechanical propeller brake and centering  
mechanism

Manual operated Nose-cone and cowl flaps

## PERFORMANCE

Maximum speed (Vne):  
270km/h (146kt)

Maximum cruise speed @MSL:  
225km/h (121kt)\*

Maximum cruise speed @FL100:  
260km/h (140kt)\*

Maximum range in Eco-cruise:  
up to 1.759km (950nm)\*

Best climb rate @MTOM:  
3,28m/s (645ft/min)

Glide ratio @106km/h (57kt)  
1:53\*

Load factors (Air-brakes in, Flaps 0° to -10°)  
< Va: +5.3g / -2.65g

Take off run:  
212 m (695 ft)

Take off distance over 15m (50ft) height:  
401m (1,315ft)

## CONTROLS & SYSTEMS

Flight controls on pilot and copilot side

Aileron and elevator through push rods

Rudder and Tail wheel through cable

Automatic connector for elevator

Aileron-flap mix (flaperon), highly  
differentiated

Hydraulic disc brake with parking brake

Electric elevator trim

Adjustable rudder pedals

Emergency canopy jettison with roeger  
hook

## AIRFRAME

Carbon-, glass- and aramid fiber reinforced  
composite structure

Hybrid fiber composite safety cockpit

Side-by-side Cockpit

Green tinted canopy with UV-protection

Lockable sliding windows with build in vents

7-part shoulder wing consists of:  
center wing, outer wings, wing extensions  
and winglets

Wing folding system for easy ground  
handling and taxiing

Integrated fuel tanks in center wing

Removeable tie down rings

Modular fuselage with steel frame center  
section carrying the engine, wing and  
undercarriage

Electromechanical operated retractable  
undercarriage with visual and acoustic  
indicator

Steerable tailwheel with aerodynamic  
faring

Tail water ballast tank for up to 15 Liters

Adjustable engine cowl flaps

Luggage compartment for 20kg (44lb) in  
tail boom

## CERTIFICATION CATEGORY

Certificated as "Powered Sailplane"  
according to EASA CS22

FAA standard airworthiness certificat



## AVIONICS

GARMIN G3X 2 x 7" Display  
(PFD & MFD)

Garmin Autopilot, integrated in G3X

Movingmap Navigation,  
integrated in G3X

Fuel Flow computer,  
integrated in G3X

LX9000 Soaring computer

LX V8 digital variometer

VHF-COM 8,33kHz with  
integrated Intercom

Transponder Mode-S cl.1 with  
ADS-B out, integrated in G3X

VHF antenna integrated in rudder

ADS-B receiver with  
integrated FLARM

Headset sockets LEMO and PJ

Gooseneck microphone

ELT 406MHz

Magnetic Compass

Airspeed indicator

Electric acoustic stall warning

## ENGINE INSTRUMENTS INTEGRATED IN GARMIN G3X

RPM indicator

Cylinder head temperature  
(left & right)

Oil temperature

Oil pressure

Fuel quantity indicator (left & right)

Ampere- and Voltmeter

## ELECTRICS

Two separate electrical systems,  
main and engine

Main circuit for the Avionics, powered  
by an LiFePO4 battery (19,2Ah) and  
an external generator

Engine circuit for starting the engine,  
powered by an LiFePO4 battery  
(7,5Ah) and the internal generator

Ground power receptacle for  
engine start

Solar cells with charge controller,  
connected to the main circuit

LED landing light and integrated

LED strobe and navigation lights

## ENGINE INSTRUMENTS (SEPARATE)

Engine fire warning system

Engine hour meter

## INTERIOR

Interior in leather, standard color  
light grey other colors optional

Adjustable backrests, suitable for  
Parachutes

4 Point seat belts, standard color  
grey other colors optional

Luggage compartments behind the  
backrests

Adjustable fresh air vents for Pilot  
and Copilot

Canopy defog vent

Document compartment between  
the seats

Storage space in the rear of the  
cockpit, suitable for 2 oxygen bottles  
or baggage

# STEMME