



TYPE-CERTIFICATE DATA SHEET

No. EASA.P.512

for
E-Props EPGU3 series propeller

Type Certificate Holder
Electravia SAS
t/a Electravia Hélices E-Props

195 Route de l'Aviation
04200 Vaumeilh
France

For Model:
E-Props EPGU3

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I. General

1. Type / Model

EPGU3

2. Type Certificate Holder

Electravia SAS
t/a Electravia Hélices E-Props
195 Route de l'Aviation
04200 Vaumeilh
France

Design Organisation Approval No.: None

3. Manufacturer

Electravia SAS
t/a Electravia Hélices E-Props
195 Route de l'Aviation
04200 Vaumeilh
France

4. Date of Application

EPGU3 28 January 2022

5. EASA Type Certification Date

EPGU3 02 March 2023

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements

28 January 2022



2. EASA Certification Basis

2.1. Airworthiness Standards

EPGU3:
CS-22 Amendment 3 Subpart J, dated 15 September 2021

2.2. Special Conditions (SC)

None

2.3. Equivalent Safety Findings (ESF)

None

2.4. Deviations

None

III. Technical Characteristics

1. Type Design Definition

Type Design Definition EP-TDD-001, Issue 3 dated 09 March 2022 (*)
(*): or later approved revisions

2. Description

The EPGU3 series propeller is a 3 blade, ground adjustable pitch propeller made of carbon fiber reinforced composite material, the blades include a foam core and a metallic leading edge sheet.

3. Equipment

None.

4. Dimensions

Propeller diameter from 155,0 cm up to max. 190,0 cm.

Blade designation	Diameter range (cm)
310	155 - 160
312	165 - 175
314	180 - 190



5. Weight

Propeller EPGU3 weight: 2.0 to 2.2 kg.

Propeller Blade model and diameter	Mass (without spinner) (kg)	Moment of Inertia (without spinner) (kg.cm ²)
310-155	2.0	1700
310-160	2.0	1800
312-165	2.1	2000
312-170	2.1	2100
312-175	2.1	2200
314-180	2.2	2800
314-185	2.2	2900
314-190	2.2	3100

6. Hub/ Blade Combinations

Hub	Blade
EPGU3-(*)A	310, 312, 314

* Hub extension every 5mm between 39 and 179mm, other dimensions on request

7. Control System

N/A

8. Adaptation to Engine

For engine flange with 6 holes dia. 13mm on 4" diameter (101.6mm).

9. Direction of Rotation

Direction of rotation is right (viewed in flight direction).



IV. Operating Limitations

1. Approved Installations

This propeller is designed for installation on Powered sailplanes, Very Light Aeroplanes and aircraft which can accept a propeller certified according to CS-22 Subpart J. The suitability of a propeller for a given aircraft/engine combination must be demonstrated within the scope of the type certification of the aircraft. The propeller is designed for geared engines, not for direct drive engines and has been tested for endurance on a piston engine.

2. Maximum Take Off Power and Speed

Max. Take Off Power (kW)	Max. Take Off Speed (Propeller RPM)	Diameter (cm)
73.5	2388	155 – 190

3. Maximum Continuous Power and Speed

Continuous Power (kW)	Continuous Speed (Propeller RPM)	Diameter (cm)
69	2265	155 - 190

4. Propeller Blade Pitch

Pitch is measured on the reinforced leading edge close to the inner limit according to the schema in the Installation and Maintenance Manual for EPGU3 series propeller.

V. Operating and Service Instructions

Manuels	
Installation and maintenance manual for EPGU3 series	EP-IMM-001-(*)

(*): latest approved revision

Instructions for Continued Airworthiness (ICA)	
Installation and maintenance manual for EPGU3 series	EP-IMM-001-(*)
Repair and overhaul manual for EPGU3 series	EP-ROM-001-(*)
Illustrated part list, EPGU3 series	EP-IPL-001-(*)
Service Bulletins, Service Letters, Service Advisories and Service Instructions	

(*): latest approved revision



VI. Notes

1. The general suitability of a propeller for a given aircraft/engine combination must be demonstrated within the scope of the type certification of the aircraft.

2. Propeller Designation System

Example:

HUB						BLADE						
EP	G	U	3	-	59	A	()	312	a	-	175	A
1	2	3	4	5	6	7	8	9	10	11		

Hub: 1 E-Props
2 Hub Type: G – Ground adjustable
3 Hub model
4 Number of blades: 3
5 Hub extension: Length in mm, 2 or 3 digits
6 Hub mounting flange: A – 6x13 mm on 4 inch (101.6 mm) diameter

Blade: 7 Direction of rotation: blank – right hand rotation
8 Blade model, 3 digits
9 Blade revision letter
10 Diameter in cm
11 Blade finishing: A – Standard polished surface
F – Paint on full blade
P – Paint on tips



SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

N/A

II. Type Certificate Holder Record

N/A

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	02 March 2023	Initial Issue of the EASA TCDS P.512	02 March 2023

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