



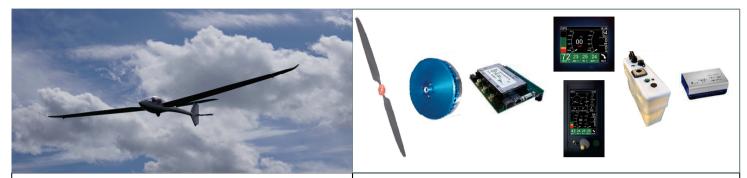




English version

#### What you should know about our *E-Drive* system

For aircraft builders the usage of electrical drive systems is often no easy matter. The relatively recent matter in conjunction with a lack of know-how and the requirement of a high efficiency need can't be solved satisfactorily and securely with compounded components. Therefore we invented a all-in system that firstly is installable by plug and play, certified and very efficient and secondly provides the opportunity to add further functional characteristics via parameterization, scaling and optional components.



#### The advantages

- Fly environmentally friendly and CO<sub>2</sub> neutral
- Energy conversion efficiency > 90%
- Engine flying time with two standard batteries >2h
- Low noise and low vibration
- Continuously and precisely adjustable and positionable in all directions
- > Self-sufficient no infrastructure necessary
- > No handling with fuel
- Clean and odourless
- Secure, reliable operation, high-availability concept
- Easy integrable into flight systems
- ➢ No maintenance
- Low energy and subsequent costs
- > No disturbing engine noise when flying
- > New, aerodynamic well designs possible

### The complete system

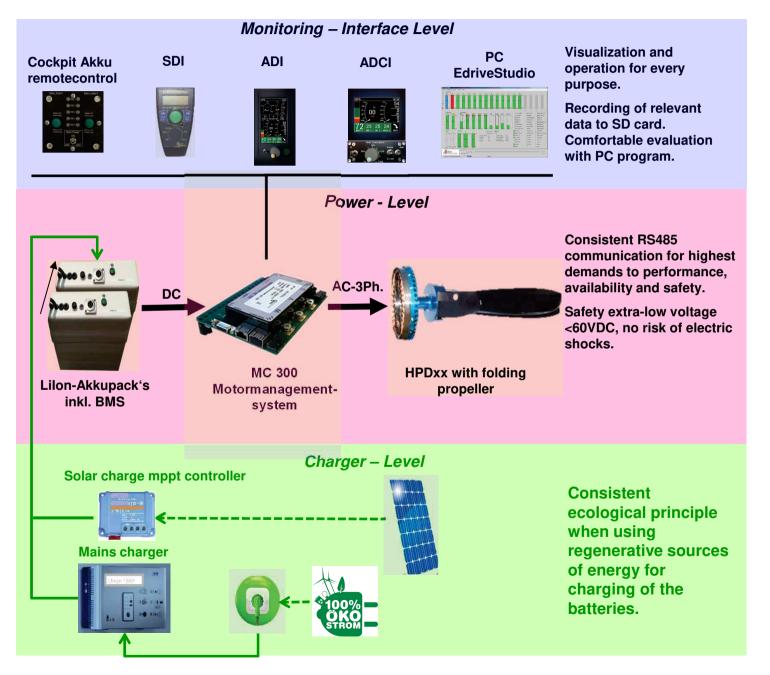
- ✓ Complete system from propeller to charger incl. all cables and plugs from one provider, scalable.
- All components were invented in the house and are perfectly coordinated.
- $\checkmark\,$  Full service in advice and design
- ✓ Constant product care -> regular new features for system extension and improvement
- ✓ Special solutions for your individual range of application, support of special projects
- ✓ Safety extra-low voltage <60V DC, no risk of electric shocks
- ✓ Interpreted and examined, including extensive documentation
- ✓ Complete system from 6900.-€ net incl. high performance battery and propeller!

# The *E-Drive* components



Technische Änderungen vorbehalten, die Bilder sind nicht maßstabsgerecht 01.2023

# Function and energy flow diagram of our product portfolio





# Diese Profis fliegen schon lange mit *E-Drive*



*Manfred Ruhmer*, Multiple world champion in Hang-gliding, drives with HPD 12/16 for over ten years

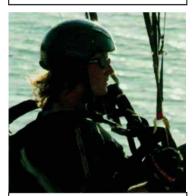
#### **Manfred Ruhmer**

# Manfred, which aeronautical experiences have you made with our electrical HPD drive systems?

One thing is clear to me: For lightweight aircrafts, whether it is a swift, a lightweight trike or a double drive the only drive that is worth considering is the electric drive. My experiences with the HPD are only positive and I don't want smell of gasoline nor gasoline smeared or oily hands. No vibration and a very low noise generation, low fuel cost and the reliability of the system are other advantages.

# Which prospect do you see for electrical drive systems, primarily as start-up and return flight support in aviation sports?

As soon as the cost of drive systems are affordable, start-up and return flight support systems will be very popular and replace combustion engines at some point. Also, the politics are challenged to support electrical drive systems in any form of manner.



#### Ales Hubacek

Is expert "motorized" pilot and instructor of the flying school Skyjam. As first flight instructor of Switzerland, he has a foot launching as well as a paraglider trike version admitted with the Geiger E-Drive HPD 12 system.

#### **Ales Hubacek**

#### Ales, which aeronautical experiences have you made with our electrical HPD drive systems?

As a swiss manufacturer of paramotors, several years ago I set the goal to build a reliable, robust, easy to handle and powerful paramotor. Already the very first tests with the Geiger drive system pointed out the big potential of this unit compared to other ones. With the first prototype of the paramotor I could realize flat country thermal flights lasting for hours. Since then I spent many hours in the air with this drive system. Some of these flights had thermal assistance but other ones have been rare Nullschieberflüge in calm air. The fascination from the beginning has always been the silence during this type of flying. There is no vibration noticeable compared to combustion engines. The drive is adjustable precisely and continuously and if necessary, the system generates a stunning boost that brings the pilot back to a safe height.

### Which prospect do you see for electrical drive systems, primarily as start-up and return flight support in aviation sports?

The Geiger drive system offers a wide range of possibilities. It allows thermal entries in areas where no mountains or launching possibilities exist. With the drive reserve one can find appropriate and safe landing possibilities even on cross country flights. Flights are now possible without a long journey and it doesn't make any difference if you use a paraglider, hang-glider or trike. Moreover the relaxing evening flight is possible without much effort and without significant impact on population and environment by noise and exhaust gas.

# Application examples of the *E-Drive* system



For development, advice, design and sale we will be happy to help you. You can find more examples and information on our homepage.



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