



E-PAC is the world's first commercial 'electric' powered flight system. Not only does it represent a significant breakthrough in electric technology it also offers, for the first time, the opportunity to fly using an environmentally friendly power source.

Unlike petroleum, electricity is clean, reliable and hassle free. It is a commodity which people feel comfortable using in their everyday lives - TVs, Hi-Fi's, MP3 players and mobile phones - and so it is the perfect power source to use as they take to the air.

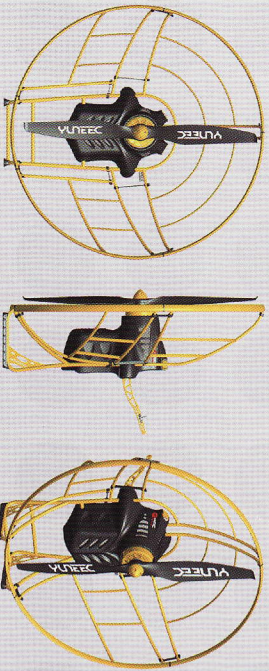
The advantages of Electric Power:

- Easy to use - Just flick the switch
- Power - Only when it's needed
- Clean - No messy residue
- Environmentally friendly - No emissions
- Lower Noise - Motor is silent
- Simple to re-fuel (change/charge batteries)
- No mechanical knowledge required
- No motor adjustment required
- No servicing needed
- Not effected by altitude or conditions

E-PAC is the perfect power unit for pilots of all levels, from beginner to professional. The 'Plug and Play' advantages and quiet operation of electric power provides stress free flying for everyone.

Small enough to disassemble to fit in the boot of a car, a train or a plane the **E-PAC** can be easily transported to fully explore the freedom and the joy of electric flight.

Enjoy the Experience . . . Fly **E-PAC** . . . *it's Electrifying!*



Specifications:

General

Weight: 28kg inc. Batteries (Ready to fly - no wing)
Body Type: Moulded Plastic
Propeller Cage: Profiled Aluminium
Cage Diameter: 1.3m
Flying Time: 25 - 30mins (Depending on rpm, weight and wing)
Visual Warning: Body mounted Red LED

Motor

Make: Yuneec 'Power Drive 160'
Type: Direct Drive
Diameter: 160mm
Control: Internal Sensor
Voltage: 66.6V
Output: 10KW
Cooling: Integral motor Fan

Propeller

Make: Yuneec 'O-Prop'
Specification: 2 Blade, 2 Piece, Carbon
Size: 1.2m
Thrust: 50kg +/- (2,450rpm @2V)

Speed Controller

Make: Yuneec 'Power Block'
Voltage: 59 - 80V (Max)
Amperage: 250A / @80V (Max)
Audible Alarms: Power On / Start
Start Protection: 5 sec. Slow start (Initial activation)
Battery Protection: 59V Auto Cut

Hand Controller

Functions: Start, Stop, Throttle, Cruise
Display: 128 x 64 Pixel LCD
Connection: RS232 Data Cable (Detachable)
Alarms: Motor temperature, Low battery
Data Information: Voltage, Current, Throttle Position, Time
Motor/Controller Temperatures

Battery Packs

Type: Plug and Play
Lithium Polymer (LiPo)
Voltage: 59 - 78V
Battery Pack: 1 x 30Ah Pack (Schedis/PK)
Total Amperage: 30Ah (Standard) (60Ah with Additional Pack)
Weight: 13kg per 30Ah pack
Battery Protection: Internal PCB - Max Temp / Max Output

Charger

Make: Yuneec E-Charger
System: Cell Monitoring / Balancing
Data Display: 115 x 63mm LCD
Protection: Charger shut down on fault detection
Input: 230V AC

Optional Items

Batteries: Battery pack 30Ah



ELECTRIC PARAMOTORS



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Electric Innovation and Design

E-PAC

ELECTRIC PARAMOTORS

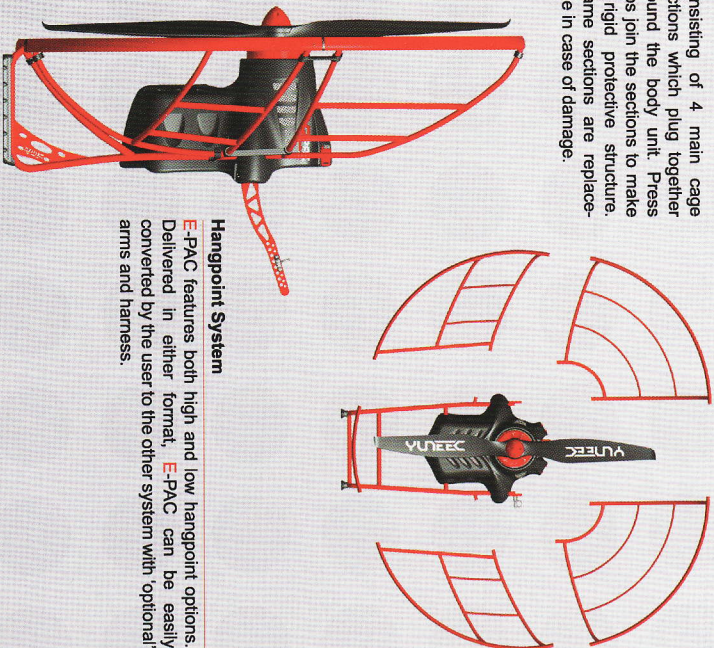
E-PAC is the beginning of a new era in personal aviation. At Yuneec International we are proud to present the world's first mass production 'electric' aircraft, designed by a passionate team of engineers and professional pilots. Its design is the culmination of years of experience in the paramotor industry and an extensive 3 year R&D programme.

At the heart of **E-PAC** is our purpose designed and patented direct drive brushless motor, the 'Power Drive 160'. Weighing only 4.8kg, it is the perfect power unit producing zero vibration or noise during operation and with only a single moving part it is virtually maintenance free. Powered by Lithium Polymer cells the entire power system is housed inside a practical and ergonomic moulded body unit. It is the most compact power unit on the market. Fitted with a 4 part 1.3m propeller cage designed for fast assembly and optimum efficiency our specialized 'aerofoil profile' tubing provides high strength and minimal drag. The 'quiet prop' and light weight 'easy grip' hand controller, fitted with an LCD data display all combine to make **E-PAC** the most advanced paramotor in the world today.

Frame

E-PAC's lightweight aluminium frame has been purpose designed for ease of assembly and transportation.

Consisting of 4 main cage sections which plug together around the body unit. Press clips join the sections to make a rigid protective structure. Frame sections are replaceable in case of damage.



Hangpoint System

E-PAC features both high and low hangpoint options. Delivered in either format, **E-PAC** can be easily converted by the user to the other system with 'optional' arms and harness.

Motor 'Power Drive 160'

Yuneec's 'Power Drive 160' out-runner brushless motor is sensor controlled for optimum performance and reliability. Smooth running, precise speed control, instant response and zero vibration make it the most user friendly power source available. Internal sensors monitor temperature and rpm.



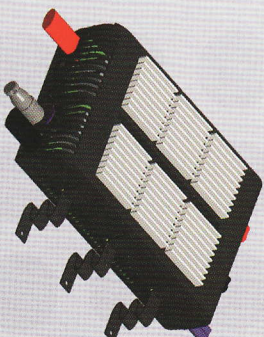
Q-Prop Propeller

The easily removable, 2 piece carbon propeller gives excellent performance and efficiency combined with quietness. Specifically designed and produced at Yuneec, propeller development continues to be a key area for Yuneec's research and design teams.



Body

The modern, stylish, durable **E-PAC** body is produced in a polypropylene moulded material, plain coloured or carbon effect depending on model type.



Power Block Speed Controller

One of the most difficult parts to design of any electric motor is the power controller with reliability being the key issue. Yuneec's 'Power Block' controller has been matched with the 'Power Drive' motor to give maximum performance and efficiency with total reliability. Internal temperature feedback with software protection, in case of overheating, enhances reliability.

Hand Controller

E-PAC's lightweight, easy to use hand controller uses an RS232 data cable connection to the motor unit. This feature packed controller is left or right handed and gives a smooth and positive, throttle response, ideal for training and precision flying.

The controller LCD data screen shows constantly updated information on Voltage, Amperage, Motor and Controller Temperatures, Rpm, and Running Time. The user can 'toggle' between different screen layouts in flight.

The hand controller also features 'Cruise Control' and a 'Vibrating' Alert system for Low Battery Voltage and Peak Motor temperature.



Battery Pack

'Plug and Play' battery pack make **E-PAC** simple and easy to use. Aluminium cased for cooling and damage protection, the **E-PAC** Lithium Polymer pack has internal 'safety' protection.

A circuit board measures the maximum output and maximum temperature and shuts down the pack should either preset maximum be reached.

The 30Ah pack has 54 individual 10Ah cells which are assembled to give 66.6V.

E-PAC can be fitted with an additional battery pack to give 60Ah capacity.



E-Charger

Charging is the most critical time for any battery pack and Yuneec's engineers have designed the **E-PAC** charger with safety as the main priority.

The **E-PAC** charger monitors all 54 cells in the battery pack at the same time balancing them within 0.03mV. This charger was specially designed at Yuneec and is the only charger of its type in the world at present. No other commercially available charger can do this and it represents a huge breakthrough for electric power systems.

E-Charger is automatic and simple to use. The large data displays shows the state of charge and that each pack is at its maximum capacity for use. Balancing also maintains the batteries in a better state and so ensures the life cycle of the batteries is maximised.

