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 - TV's, 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 (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 beginners to professionals. The 'Plug and Play' advantages and quiet operation of electric power provides stress free flying for everyone.

Small enough un-assembled to fit in the boot of a car, a train or a plane the E-PAC can be taken anywhere in the world to fully explore the freedom and the joy of electric flight.

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

E-PAC
ELECTRIC PARAMOTORS

E-PAC Specifications:

Statistics

Weight:	22~25Kg inc. Batteries (Ready to fly - no wing)
Body Types:	Moulded Plastic/Carbon Fibre
Propeller Frame:	Profiled Aluminium
Frame Diameter:	1.25m
Flying Time: (Using 3 Packs)	20~30mins (Depending on rpm, weight and wing)

Motor

	Yuneec 'Power Drive 160'
Type:	Direct Drive
Diameter:	160mm
Control:	Internal Sensor
Voltage:	55V
Output	10KW
Cooling:	Integral Motor Fan

Propeller

	Yuneec 'Q-Prop'
Specification:	2 Blade, 2 Piece, Carbon
Size:	1.2m

Motor/Prop Output

Thrust:	50kg +/- (@63V)

Speed Controller

	Yuneec 'Power Block'
Voltage:	50 ~ 65V (Max)
Amperage:	250A / @65V (Max)
Audible Alarms:	Power On / Start
Start Protection:	5 sec Slow start (Initial activation)
Battery Protection:	52V Auto Cut

Hand Controller

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

Battery Packs

	Plug and Play Battery Packs
Type:	Lithium Polymer – Aluminium cased
Voltage:	52~63V
Packs/No. Cells:	3x 10Ah Packs (15 Cells per pack)
Total Amperage:	30Ah (Supplied) (60Ah with Additional Pack)
Weight:	3.3Kg per pack (3 packs 10Kg, 30A)
Battery Protection:	Internal PCB - Max Temp / Max Output

Charger:

	Yuneec E-Charge
System:	Individual Cell Charging / Monitoring / Balancing
Display:	128 x 64 Pixel LCD
Protection:	Full cell/charger shut down on fault detection
Input:	110 / 230V AC Switchable

Optional Items

Batteries:	Battery Pack 10Ah (Each) Battery Set 30Ah (Tri Pack)

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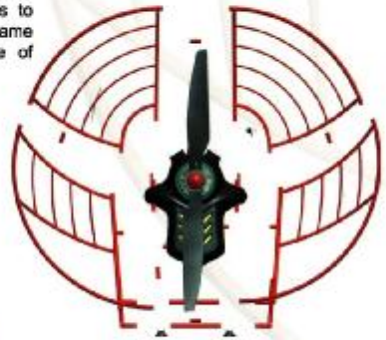
E-PAC presents the beginning of a new era in personal aviation. At Yuneec International we are proud to announce the world's first mass production electric aircraft, designed by a passionate team of engineers and professional pilots. Its design is the culmination of 10 years experience in the paramotor industry and an extensive 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 3.8kg, it is the perfect power unit producing zero vibration or noise during operation and with only a single moving part it is 100% 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 1.2m 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 made by 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 Carbon Fibre or a polypropylene moulded material, 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 hold 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, Height 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 packs make E-PAC simple to use. Just open the protective contact cover and slot the battery pack into the charger. After charging – 1~1.5 hours depending on discharge – simply slide the pack into the E-PAC frame, lock in place, connect and it's ready to use.

Aluminium cased for cooling and damage protection, the E-PAC Lithium Polymer batteries have internal 'safety' protection. A special electronic circuit board in each battery measures the maximum output and maximum temperature and shuts down the pack should either maximum be reached.

Each pack has 15 individual 10Ah cells which combine to give 55.5V.

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.

Just charging and monitoring the whole battery pack is not enough and so the E-PAC charger incorporates 15 individual chargers and electronic circuits – one for each cell. Charging and monitoring only one cell ensures maximum charge per cell as well as total protection from overcharging. Should a cell fault develop the individual charger shuts down which then shuts down the whole charger. The charger identifies the problem cell for further investigation.