Pipistrel Velis Electro

Pre-inspection

- Documents - on board
- Walk around aircraft - complete
- Chocks and tie-downs - removed
- Pitot and static ports - clear
- Control surfaces - free movement
- Battery cooling vents - clear, no obstructions
- Propeller - free, no damage
- Tires and brakes - checked

Before engine start

- Seats and seat belts - fastened
- Battery state of charge - verify minimum 30%
- Battery temperature - within green band
- Power switch - off
- Brakes - hold
- Master switch - on
- Motor controller - ready, no fault codes
- Inverter / contactor - ready
- Beacon - on
- Area - clear, no audible engine, verify visually

Engine start

- Motor power switch - on
- Motor controller - ready
- Power lever - test response
- Battery temperature - monitor

After engine start

- Avionics master - on
- Radios - set frequencies
- ATIS / weather - obtain
- Altimeter - set to QNH
- Transponder code - set, mode standby
- Battery state of charge - verify and log
- Estimated flight time - calculate from charge minus reserves

Before taxi

- Flaps - up
- Doors - closed and latched
- Flight controls - free and correct
- Brakes - check
- Taxi clearance - obtained

Before takeoff

- Power lever - smooth response check
- Motor controller - no fault codes
- Battery temperature - verify green band

- Power lever - idle
- Trim - takeoff position
- Flaps - takeoff position
- Lights - landing, strobe, beacon on
- Transponder - ALT
- Departure briefing - complete

Takeoff

- Throttle - smoothly to full
- Engine instruments - green at full power
- Airspeed - alive
- Rotation - at Vr per POH
- Initial climb - Vy

Climb

- Power - climb setting per POH
- Airspeed - Vy
- Battery temperature - monitor
- Energy consumption - monitor draw

Cruise

- Power setting - per POH for endurance
- Battery state of charge - monitor
- Motor temperature - monitor green band
- Energy remaining - monitor, recalculate range

Descent

- Power - reduced for desired descent
- Battery state of charge - monitor
- Motor temperature - monitor
- ATIS at destination - obtain
- Approach briefing - complete

Before landing

- Battery state of charge - verify adequate for go-around if needed
- Motor temperature - verify green
- Landing light - on
- Flaps - set per phase
- Speeds - per POH

Landing

- Pattern speed - per POH
- Final approach - per POH
- Round out and flare - gentle
- Touchdown - main wheels first

After landing

- Flaps - up
- Strobe - off

- Transponder - standby
- Power lever - idle
- Taxi - to parking

Shutdown

- Parking brake - set
- Avionics master - off
- Power lever - idle
- Motor power switch - off
- Master switch - off
- Beacon - off
- Charging port - connect if available