

Stellare — Road powertrain & energy



Battery	180 kWh gross / 170 kWh usable — solid-state research target
Electrical architecture	1,000 V dual-isolated road / aviation buses
Road drive	Dual-motor torque-vectoring AWD
Peak road output	600 kW / 805 hp — 1,200 Nm
0–100 km/h	2.8 s target
Road top speed	300 km/h target
Road-only range	750 km target — no WLTP / EPA validation
DC / AC charging	450 kW peak / 22 kW onboard targets
10–80% DC	20 min target — charging curve unvalidated
Energy export	V2L 11 kW / V2H readiness, ground mode only

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Stellare — Flight system



Configuration	Wing-assisted electric VTOL; four guarded tilting rotor units
Flight power	1,200 kW peak total / 400 kW cruise target
Flight-only mission range	150 km target with separate 20-min reserve allowance
Cruise / maximum airspeed	220 / 260 km/h targets
Mission endurance	40 min nominal + 20-min reserve target
Operating altitude	Up to 1,500 m AGL target; airspace approval required
Takeoff mass / payload	3,300 kg MTOM / 400 kg payload targets
Occupants	Up to 4 including licensed pilot, within payload limit
Deployed span	8.2 m target — folded road width 2.05 m
Landing area	15 × 15 m obstacle-free approved pad target
Transition	Stationary wing deployment; locks and rotor checks before takeoff
Weather envelope	Day VFR concept; no icing, storms or severe wind

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Stellare — Chassis, aero & all-terrain road use



Road L / W / H	5,100 / 2,050 / 1,650 mm targets
Wheelbase / empty mass	3,100 mm / 2,900 kg targets
Structure	Carbon-composite safety cell; repairable aluminium panels
Ground clearance	180–280 mm adaptive air target
Road modes	Strada / Sport / Neve / Terra / Sabbia
Wheels	22-inch white forged aero wheels; black road tires
Braking	Carbon-ceramic brakes with regenerative blending
Signature aero	Triple side airflow blades, active rear spoiler, folding wings
Cargo / towing	500 L + 100 L frunk targets; towing not proposed

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Stellare — Bianco Perla cabin & technology



Exterior	Pearl white
Interior	All-white nappa, carpets, headlining and console
Seating	Four individual executive seats with flight-rated restraint target
Canopy	Panoramic electrochromic glass; auxiliary PV research
Displays	15-inch driver / 17-inch center / augmented-reality HUD targets
Audio	2,000 W / 28-speaker reference system target
Road assistance	L2+ driver-supervised highway assistance target
Flight interface	Pilot-supervised stabilization, navigation and landing assistance
Climate	Heat pump; battery and cabin preconditioning

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Stellare — Safety, certification & development gates



Redundancy research	Independent power buses; redundant controls and sensors
Emergency systems	Controlled-landing and ballistic parachute feasibility studies
Ground interlocks	Rotor isolation, wing-lock sensing and pedestrian exclusion
Road approval	FMVSS / CMVSS and relevant regional type approval pending
Aviation approval	FAA / Transport Canada / EASA pathway to be determined
Pilot / operations	Applicable pilot qualification and authorized sites required
Validation gates	Mass / energy closure → rotor rig → unmanned testing → certification
Availability	Research concept only; no sale, price or delivery commitment

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