

SWINCAR e-Spider Single-Seater 2025 – Technical Specifications



Type

Lightweight electric quadricycle – single-seater
Road-approved version (L6e7)

Powertrain

4 in-wheel motors
Rated continuous power: 4.16 kW
Peak power: 10.00 kW
Peak torque: 380 Nm
Reverse function operated by push-button

Architecture

Cab and suspension system in pendular balance on independent pivoting cross-members
4 independent wheels, all driven and steerable
Suspension with swing arms and adjustable hydraulic spring-shock absorber assemblies

Battery & Range

LiFePO4 batteries, 4 kWh integrated into the cab
Over 2,500 recharge cycles before 20% capacity loss
Range: approx. 4 hours of hilly trekking with 1,000 m of positive elevation gain
Fast charging in 2 hours
Regenerative braking and battery recharge on descent

Construction

Aluminum construction (casting, machining, tubing)
Sealed bearing joints
Safety roll bar (removable for transport)

Speed

Maximum speed: 30 km/h
Regulated speed: 25 km/h

Accessibility for All

Steering wheel-mounted controls
Swing-away leg supports for PRM access (optional telescopic link)

Slope Performance

Uphill start without run-up: > 50% grade
Pendular correction of side slope: up to 50%
Dynamic stability on side slope: > 50%
Bridge crossing correction: up to 2 × 50%

Dimensions

Length:	2.05 m	2 hydraulic disc brakes, 220 mm
Width:	1.37 m	Equipment
Height:	1.35 m	Road-legal lights and parking brake
Wheelbase:	1.50 m	Horn
Ground clearance:	0.26 m	12 V outlet – Charging support – Sprayer with 12 V pump and 34-liter tank
Curb weight with batteries:	230 kg	

Brakes