



## SWINCAR e-Spider Single-Seater 2025 – Technical Specifications



### Type

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

### 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

### Construction

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

### Accessibility for All

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

### Dimensions

Length:	2.05 m
Width:	1.37 m
Height:	1.35 m
Wheelbase:	1.50 m
Ground clearance:	0.26 m
Curb weight with batteries:	230 kg

### 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

### 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

### Speed

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

### 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%

### Brakes

2 hydraulic disc brakes, 220 mm

### Equipment

Road-legal lights and parking brake  
Horn  
12 V outlet – Charging support – Sprayer with 12 V pump and 34-liter tank