

Advanced & Intelligent

Electric Rear Axle

for Trailers



Features & Benefits

 Power Generation When Driving

The electric rear axle can achieve the function of charging while driving, eliminating the anxiety of waiting for charging or preparing for charging before going out.

 Regenerative Braking Recovery

The motor converts kinetic energy into electrical energy during braking, which charges the caravan's battery and enhances energy utilization efficiency.

 Active Power Assistance

The power-assisted function of the electric rear axle delivers extra driving force, which in turn enhances climbing performance and off-road capabilities – even enabling low-displacement vehicles to tow large caravans with ease.

 Multiple Power Options Configuration

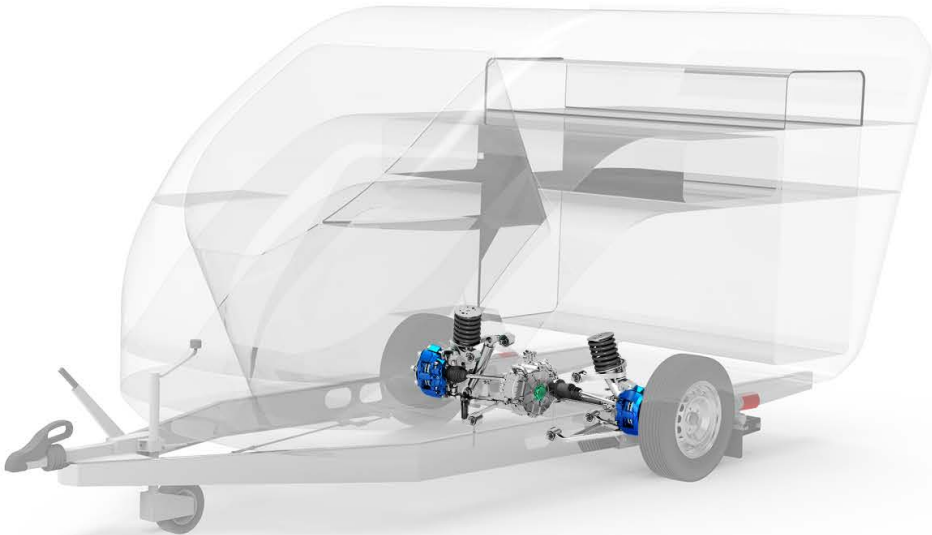
Motor options ranging from 8kW to 60kW, paired with 48V–540V system architectures, provide tailored solutions for diverse vehicle specifications and operational scenarios.

 Customeized Independent or Dependent Suspension

A variety of suspension systems are optimized to meet specific functional requirements across diverse usage scenarios, from urban roads to off-road terrains.

 Highly Integrated System Solutions

The integrated eDrive system, incorporating motor, controller, gearbox, brake, parking mechanism, and suspension, provides a turnkey solution that significantly reduces engineering efforts.



Technical Specifications

Items	540V	48V
Rated Power (kW)	60	8
Rated Speed (rpm)	3,500	6,000
Rated Torque (Nm)	164	13
Peak Power (kW)	108	15
Peak Torque (Nm)	360	30
Max. Speed (rpm)	9,000	9,000
Insulation Class	H	H
Dimension (mm)	Φ353 x 146	Φ353 x 146
Maximum Output	4215Nm for Driving	8kW for Charging
Max. Axle Load (kg)	3,000	
GearBox Ratio	12.045 or Customized	
Hub Installation Diameter (mm)	Φ161	
Wheel Track	2063, Customized	
Brake	Hydraulic Disc Brake	
Brake Model	17.5"	
EPB Braking Force (Nm)	4,480	
Braking Force (Nm)	2*5300 (10 MPa)	
Spring Center Distance (mm)	1,296	
Tires Applicable	215 / 75R17.5	
Suspension Compression Travel (mm)	80	
Suspension Rebound Travel (mm)	80	
Steering	Optional	
Weight (kg)	390	

All data are based on ROYPOW standard test procedures, actual performance may vary according to local conditions.