

# New Energy Vehicle Permanent Magnet Synchronous Motor

High-performance magnetic steel improves the motor's torque and power density. Its lightweight rotor reduces the motor's weight and rotary inertia.



## Product Overview

### High-Performance EV Propulsion

This Permanent Magnet Synchronous Motor is engineered specifically for new energy vehicle applications, focusing on maximizing torque and power density. It features a lightweight rotor design to minimize rotary inertia and utilizes a rotary transformer for superior anti-interference performance. With an IP67 protection rating, this motor offers robust resistance against water and dust in demanding automotive environments.

## Technical Specifications

### Efficiency Class

IE4

### Protection Class

IP67

### Insulation Class

H

### Cooling Methods

IC411, IC410, IC416

### Frame Material

Aluminum

## Operating Conditions

### Ambient Temperature Range

**-15 °C**

Min Temp

**40 °C**

Max Temp

### Voltage

Customized

## Key Features

### Engineering Highlights

- High performance magnetic steel for improved torque and power density
- Lightweight rotor design to reduce overall weight and rotary inertia
- Rotary transformer for rotor position sensing with strong anti-interference
- Optimized water and dust resistant construction