

PMSM Motor 120S 60H 1250W

Model: Voltworks V-120S-60H 1200W Commercial EV Powertrain Motor

PRICE / UNIT

₹5,265.00

3-Wheeler EV Parts

EV Powertrain Systems

Product Overview

Engineered specifically for L3 Category E-Passenger vehicles (up to 700 kg Gross Vehicle Weight), the **Voltworks V-120S-60H 1200W Electric Motor** delivers high torque, exceptional thermal stability, and maximum energy conversion for urban commercial transport.

Technical Specifications

SPECIFICATION PARAMETER	DETAILED RATING / VALUE
Motor Type	Permanent Magnet Synchronous Motor (PMSM)
Model Designation	Voltworks V-120S-60H (1200W / 1250W)
Operating Voltage	Dual 48V / 60V Configurations
Rated / Peak Power	1200W (Peak output 1250W)
Peak Efficiency	> 93% Energy Conversion
Peak Torque	Up to 30 Nm
Maximum Gradeability	Tackles up to 18% Gradients
Max Gross Vehicle Weight (GVW)	700 kg
Ingress Protection Rating	IP66 Water & Dust Resistance
Cooling Mechanism	Integrated Forced Fan Air Cooling
Target Vehicle Category	L3 Category E-Passenger & E-Rickshaws

Key Features & Benefits

Power & Efficiency

Operates seamlessly across dual 48V/60V setups with peak energy conversion efficiency exceeding 93%, maximizing battery range and reducing thermal losses.

High Torque & Gradient Performance

Generates up to 30 Nm peak torque to effortlessly haul up to 700 kg GVW across steep urban slopes and gradients up to 18%.

Rugged Commercial Durability

Features robust IP66 ingress protection against moisture and dust ingress, backed by integrated forced air cooling for round-the-clock commercial operations.

Recommended Applications

- L3 Category Commercial E-Passenger Rickshaws
- Electric 3-Wheeler Cargo & Last-Mile Delivery Fleet Vehicles
- Retrofit Powertrain Conversions for Light EV Platforms