

PRODUCTS PORTFOLIO

BLDC MOTOR AND ENERGY STORAGE SOLUTIONS.



High-performance and energy-efficient **HUB MOTORS** for electric vehicles.



Intelligent **MOTOR CONTROLLERS** ensuring precise And responsive vehicle control.



Precision-engineered **WIRE HARNESSES** for seamless connectivity within electric vehicles.



Customizable **LITHIUM BATTERY** Solutions tailored to meet diverse applications.



SMPS CHARGERS designed for fast and efficient EV battery charging.



ELECTRIC VEHICLE COMPONENTS

MOTOR CONTROLLER



Rated Voltage : 24V/36V/48V

Rated Power : 250W / 350W / 500W / 1000W / 1200W / 1500W / 2000W

BLDC MOTOR

1 MMFAT50HD



Position Rear	Dropout 175mm/190mm	Brake Type Disc brake	Rated Voltage 48V/60V/72V	Rated Power 3000W-5000W	Max Speed 100km/h	Max Torque 160Nm
Efficiency ≥82%	Weight 9.5kg	Wheel Size 20"-26" fat rim	Spoke 36H-10G	Freewheel 7S	Noise Grade ≤55DB	IP Grade IP54

BLDC MOTOR

2 MM250D



Position	: Front/Rear
Dropout	: 100mm/135mm/138mm
Brake Type	: V/Disc
Rated Voltage	: 24V/36V/48V
Rated Power	: 250W/300W
Max Speed	: 40km/h
Max Torque	: 38Nm
Reduction Ratio	: 1:4.4
Efficiency	: ≥80%
Weight	: 2.8kg
Wheel Size	: 16"-29"
Spoke	: 36H-12G/13G
Freewheel	: 6-7S / Cassette 8-10S
Noise Grade	: ≤55B
IP Grade	: IP54

3 MM27HD-500W



Position	: Front/Rear
Dropout	: 100mm/135mm/142mm
Brake Type	: V/Disc brake
Rated Voltage	: 36V/48V
Rated Power	: 500W
Max Speed	: 48km/h
Max Torque	: 78Nm
Efficiency	: ≥80%
Weight	: 6kg
Wheel Size	: 20"-29"
Spoke Items	: 36H-12G
Freewheel	: 6-7S / Cassette 8-10S/7S
Noise Grade	: ≤60DB
IP Grade	: IP54

BLDC MOTOR



4 MM30HD-1000W

Position	: Front/Rear
Dropout	: 100mm/135mm/142mm
Brake Type	: V/Disc brake
Rated Voltage	: 36V/48V/72V
Rated Power	: 1000W
Max Speed	: 55km/h
Max Torque	: 85Nm
Efficiency	: ≥82%
Weight	: 7kg
Wheel Size	: 20"-29"
Spoke Items	: 36H-12G
Freewheel	: 6-7S / Cassette 8-10S
Noise Grade	: ≤60DB
IP Grade	: IP54



5 MM35HD-1500W

Position	: Front/Rear
Dropout	: 100mm/135mm/142mm
Brake Type	: V/Disc brake
Rated Voltage	: 36V/48V/72V
Rated Power	: 1500W
Max Speed	: 80km/h
Max Torque	: 100Nm
Efficiency	: ≥82%
Weight	: 7.5kg
Wheel Size	: 20"-29"
Spoke Items	: 36H-12G
Freewheel	: 6-7S / Cassette 8-10S
Noise Grade	: ≤60DB
IP Grade	: IP54

BLDC MOTOR



6 MM1648250

Output Power	: 250W
Speed(RPM)	: 250-350r/min
Voltage(V)	: 48V
Wheel Size	: 16"
Design	: Brushless
Brushless DC Motor	



7 MMWC24320

PMDC Electric Wheelchair Motor	
Voltage	: 24v
No-load speed	: 146 rpm±4
No-load current	: 4.5A
Rated power	: 320w
Rated current	: 15.5A
Noise	: ≤65db
Gear ratio	: 1:32

8 33"/35" E-Rickshaw Differential with Motor

Motor Type	: Mid Mount Motor
Voltage	: 48V/60V
Rated RPM	: 3000 - 3800
Peak Torque	: 23 - 32 Nm
Power Range(Rated)	: 1000W - 2000W





CERTIFICATIONS

- 01 | AIS 156 (Part-II) certified by International Certificate for Automotive Technology for 24Ah 25.6V Lithium Ferro Phosphate Battery
- 02 | AIS:048:2009 certified by International Certificate for Automotive Technology for 12V 33Ah Lead Acid Battery
- 03 | Certified as a ISO 9001 : 2015 company
- 04 | Certified MSME certified by Ministry of Micro, Small and Medium Enterprises.
- 05 | Certified as a Startup by Department of Promotion of Industry and Internal Trade.
- 06 | Association with IIT Kanpur for working on advanced chemistry cells

Rigorous Product Testing and Validation

Mars Mobility follows a comprehensive product testing and validation process to ensure the quality and reliability of its electric mobility solutions. This includes thorough performance testing, durability testing, and safety testing to meet and exceed industry standards.

SUSTAINABILITY = NECESSITY



VISION

To be a global leader in mobility and energy storage solutions through innovation and manufacturing excellence.



MISSION

To design, develop, deliver cutting edge green solutions that empower individuals, enhance accessibility and contribute to a cleaner future.

