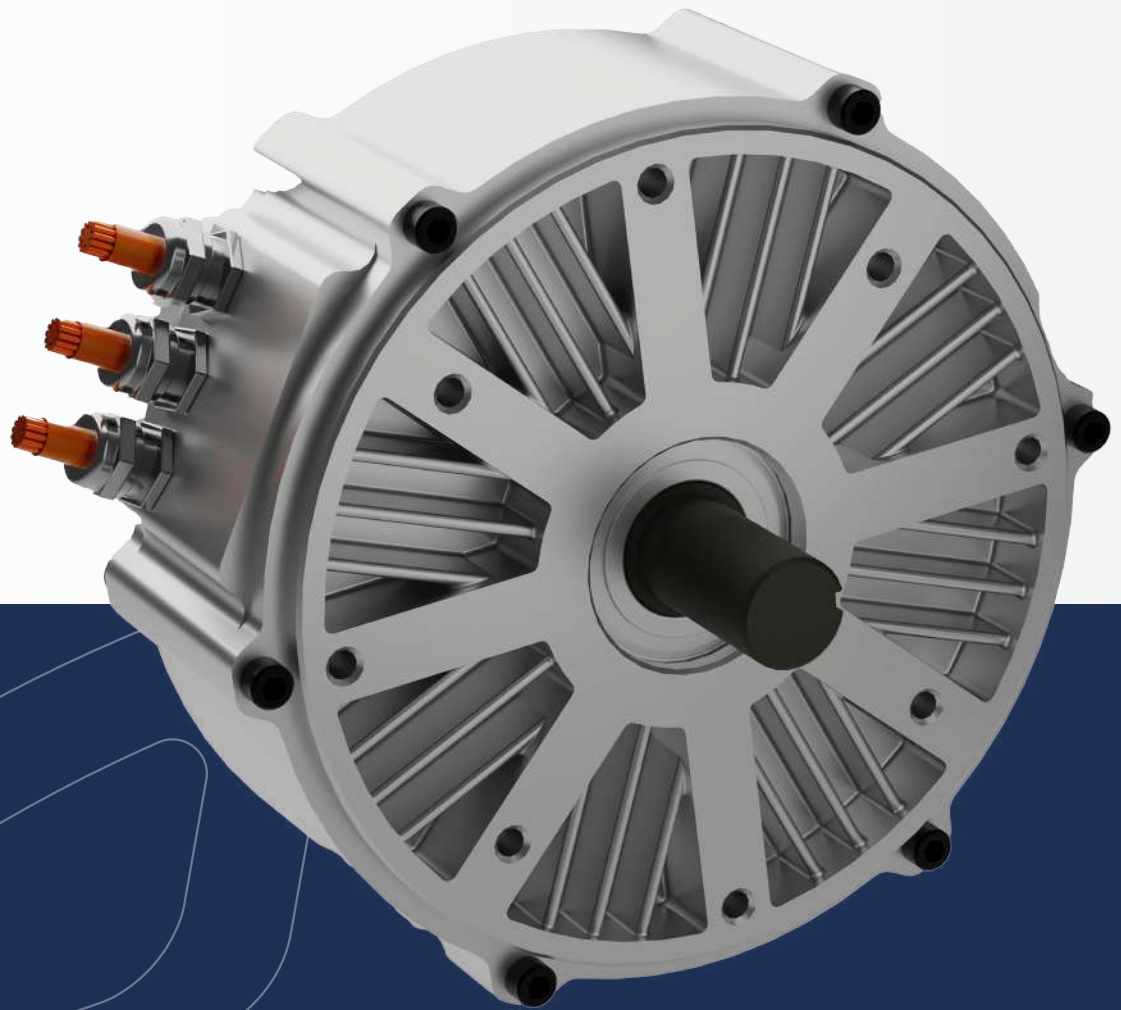




India's Most Compact & Powerful Axial Flux Motors & Controllers

Where Speed, Range and Affordability meet!

"To make your vehicle go faster & further"



Why Torus Axial Flux Motor

Easy to Integrate

50% Compact & Light Weight

15% More Efficient

Cost Effective

Torus Axial Flux Motor (TAFM)

VERSIONS	V1						V2					
COOLING	AIR COOLED			LIQUID COOLED			AIR COOLED			LIQUID COOLED		
VOLTAGE (V)	48	60	72	48	60	72	48	60	72	48	60	72
Rated Power	2.5	3	3.5	3.6	4.1	4.6	4.8	6	7	7.2	8	9
Peak Power	5.5	6	7	7.5	7.8	9.5	8.5	10	12	11	15	17
Peak Torque	36Nm	36Nm	36Nm	41Nm	41Nm	41Nm	60Nm	60Nm	60Nm	80Nm	80Nm	80Nm
Max RPM	3600	4500	5400	3600	4500	5400	3600	4500	5400	3600	4500	5400
Max Efficiency	92	92	92	96	96	98	94	94	94	97	97	98
Duty Cycle	S9	S9	S9	S9	S9	S9	S9	S9	S9	S9	S9	S9
Weight	7.5	7.5	7.5	7.8	7.8	7.8	10.5	10.5	10.5	11	11	11
Rated DC Current	40A	40A	40A	75A	75A	75A	80A	80A	80A	150A	150A	150A
Peak DC Current	80A	80A	80A	180A	180A	180A	230A	230A	230A	300A	300A	300A
Peak Arms Current	260A	260A	260A	300A	300A	300A	450A	450A	450A	600A	600A	600A
Rotor Position Sensor	Magnetic Encoder			Magnetic Encoder			Magnetic Encoder			Magnetic Encoder		
Thermal Sensor	100K NTC			100K NTC			100K NTC			100K NTC		



Torus Axial Flux Motor

We are on a mission to develop compact, lightweight powertrain solutions such as Axial Flux Motors & Controllers to empower EV to go faster, further and be affordable.

EV Applications



E2W (Motorcycle & Scooter)



E3W (L3 & L5)



E4W (Golf Cart & Go-kart)

Other Applications

GENERATORS

AGRICULTURE

ROBOTICS

PUMPING

HVAC



Torus Electronic Speed Controller (TESC)

- ✓ Motor parameters autodetection
- ✓ Supports hall sensors, magnetic encoder
- ✓ Current and voltage measurements
- ✓ Supports controlled regen
- ✓ Supports brushed DC motors, Brushless motors, PMSM, IPM
- ✓ GUI to set parameters
- ✓ Supports current control, speed control, sensed position control
- ✓ Speed Sync through CAN for dual motor drive systems
- ✓ Reverse switch
- ✓ Supports current limiter, RPM limiter

SPECIFICATIONS	TESC (300)	TESC (500)
Configurable For	BLDC/PMSM/IPM/AFM	BLDC/PMSM/IPM/AFM
Nominal Operating Battery (V)	48/60/72 V	48/60/72 V
Max. DC Current (Line)	80 A	120 A
Phase Rated Current (RMS)	80	100
Phase Peak Current (RMS)	250	350
Control Method	Sinusoidal/Trapezoidal	Sinusoidal/Trapezoidal
Weight in Kg	1.3	1.3
IP Rating	IP65	IP65
Cooling	Natural Air	Natural Air
Interface and Communication	Hard wired or CAN base Throttle, Regenerative Braking, Drive signals etc - CAN and UART	

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