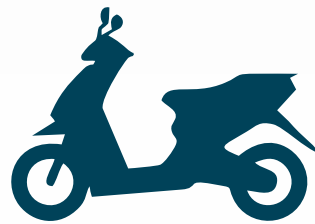




EV

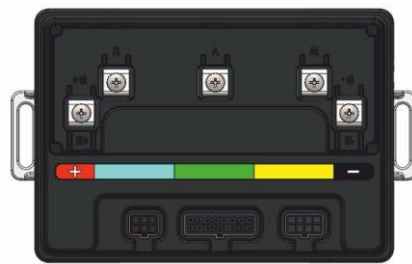


GO GREEN



ENHANCE YOUR DRIVE WITH INNOVATIVE EV SOLUTIONS

MOTOR CONTROL UNIT - 2W



SHAKTI EV MOTOR CONTROL UNIT

ABOUT THE PRODUCT

The Shakti EV Controller is a robust and efficient solution designed to enhance the performance of electric two-wheelers. Engineered with advanced features, this controller ensures optimal motor performance and safety. Its natural cooling system and IP67 ingress protection rating makes it highly durable and suitable for diverse environments. The Shakti EV Controller comes with CAN communication compatibility and provides reliable and efficient control, meeting the needs of a sustainable future.

KEY FEATURES

1. Parking and drive modes functionality.
2. Multiple speed modes: Three standard and a sport mode.
3. Vector control with speed sensor integration.
4. High Brake Mode.
5. Side stand safety protection.
6. Throttle control functionality.
7. Forward and reverse mode control.
8. Regenerative braking control.

PROTECTIONS

1. Short circuit protection.
2. Motor over temperature.
3. Controller over temperature.
4. DC Bus over voltage.
5. DC Bus under voltage.
6. Throttle signal error.
7. Hall Sensor signal error.

APPLICATION

Designed for electric 2-wheelers.

SPECIFICATION TABLE

PARAMETERS	SHAKTI EV CONTROLLER	
	86-02	86-10
INPUT(DC)		
Voltage	40V-71V	62V-84V
Max Input Current	50A	
Maximum Power	3000 W	3600 W
OUTPUT(AC)		
Nominal AC Voltage range	0-42 VAC	0-50 VAC
Frequency	0-400 Hz	
Power Factor Range	0.8 - 1	
Connection Phases	3 phase only	
EFFICIENCY		
Max Efficiency	> 90%	
COMMUNICATION		
Communication Protocols	RS232/CAN	
GENERAL DATA		
Cooling Method	Natural Cooling	
Ambient Humidity	0-90%	
Position Feedback	Hall Sensor	
Altitude	< 1000 m	
Mounting	Horizontal (tentative)	
Noise (dbA)	< 20 dbA	
Operating Temperature Range	-30°C to 65°C	
Dimensions (L*W*H)	200mm x 125mm x 65mm	
Gross Weight	1KG	
Standard Warranty	1 year	