

Ego CX 2.0 motor controller

Product Description

The Ego CX 2.0 of ebike computer is high efficiency and power motor control unit which covers the most of battery voltages (nominal DC 36V~48V) with 250W motor.

Ego CX operates under CAN Bus communication. Programmable settings and protections reduce the efforts of system integration and satisfies different performance requirements.

Utilities

- Electric bikes
 - Personal transportation carrier
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Features

- ISO13849-1 certified
 - Sensoreless control
 - CAN Bus
 - Field Oriented Control (FOC) for 98% efficiency and silent motor drive
 - Intelligent motor-phase matching
 - Error protection and functional safety
 - Programmable performance setting via E-Link tool (Windows based)
 - IPx7 with potting
 - Low power consumption when shut down
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Interfaces

Pin Out Table			
Item #	Function	Description	Specification and rating
1	+5V	5V for hall	30mA max
2	Hall-U		0V/5V
3	Hall-V		0V/5V
4	Hall-W		0V/5V
5	NTC	NTC/Motor speed	
6	GND		30mA max
7	+36V		DC Bus
8	GND		
9	Analog input 1	Torque	
10	Analog input 2	Throttle	
11	+5V		30mA max
12	Analog input 3	Brake 1	

13	Digital input 3		
14	+12V		50mA max
15	Digital input 1		
16	Digital input 2		
17	CAN H		
18	CAN L		
19	Wake up 1		
20	Wake up 2		
21	+12V switchable	Front light	PWM; 1.5A max
22	GND		
23	+12V/+6V	Rear light	PWM; 100mA max
24	GND		

Dimensions

116mmx25mmx50mm

Connectors to be compatible with Higo/Julet are available.

