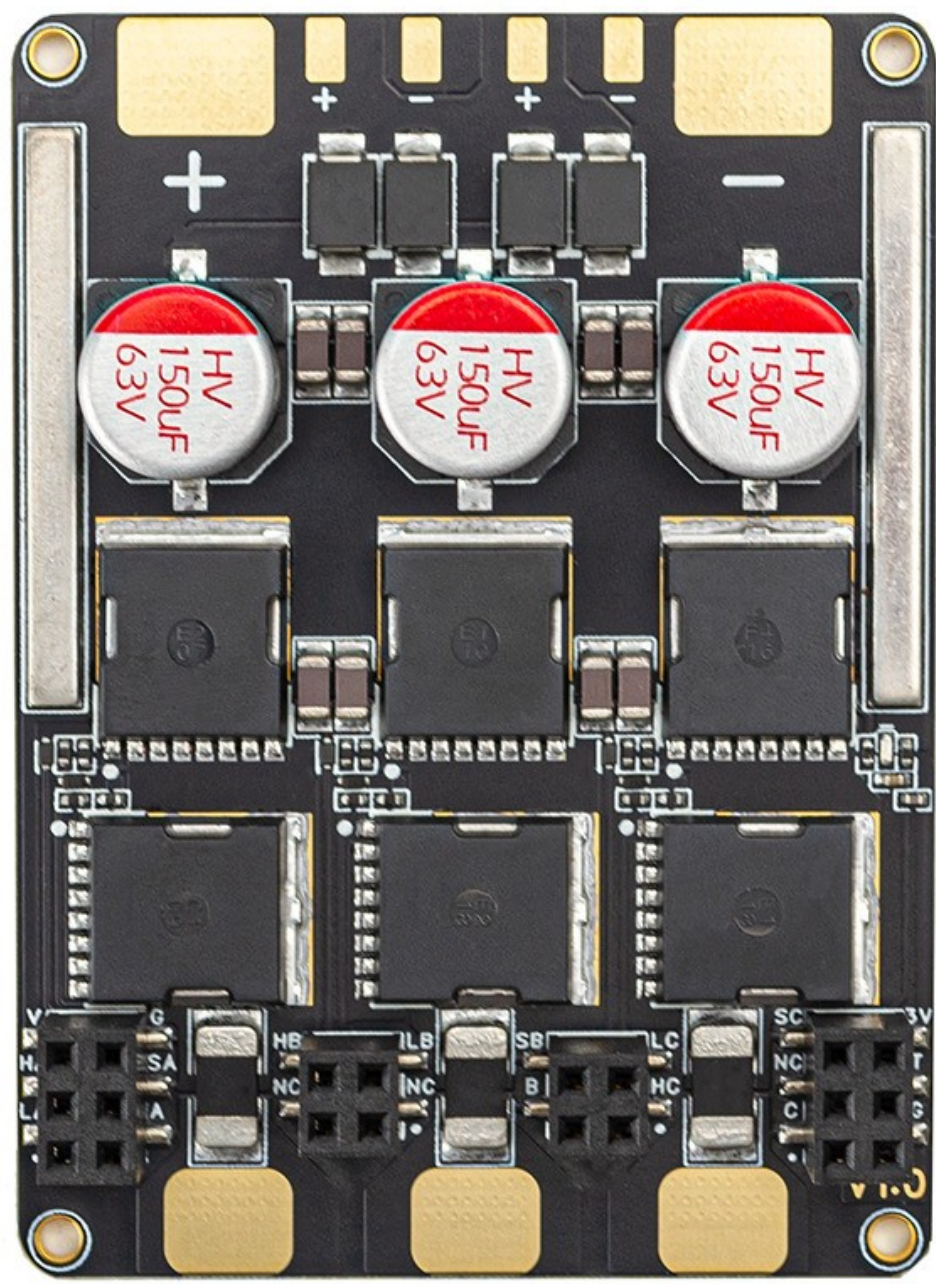




Single motor electronic speed controller featuring an STM32F405R microprocessor running VESC_mk5 firmware, configurable through VESC Tool. Supports input voltage range of 4-12S with 100A continuous current capacity and 150A peak current handling. Provides multiple communication protocols including PPM, UART, ADC, USB, and CAN, with telemetry output via UART or CAN interfaces. Includes two 1500µF 50V solid-state capacitors. Power and motor connections utilize solder pads. Operates in temperatures from -20°C to 40°C with passive cooling requirements and humidity tolerance of 20-95% RH non-condensing. Unit measures 66.8 x 48.3 x 16.4mm.

Product details	
Model	12S 100A
SKU	7775
Electrical specification	
ESC type	Single motor
Continuous current	1 x 100 A
Peak current	1 x 150 A
Input voltage	4 - 12S
Capacitor included	2 x 1500 µF @ 50 V
Power connector	Solder pads
MCU	
ESC MCU	STM32F405R
Firmware	VESC_mk5/HD60
ESC configurator	VESC Tool
ESC protocols	PPM, UART, ADC, USB, CAN
Interfaces	
Telemetry support	UART / CAN
Motor output wire	Solder pads
Mechanical specifications	

Dimension	66.8 x 48.3 x 16.4 mm
Weight	10 g
Operating conditions	
Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Cooling requirements	Passive (natural airflow)
Common	
Package contents	Power cord, Set of cables, Solid-state capacitors
Warranty	2 years

Wiring diagram

