

VOLTA CL – Electronic Speed Controller

Firmware 2.07 – Detailed manual available at www.rc-factory.eu

An advanced brushless motor controller designed for RC models. It offers high efficiency, low weight, integrated telemetry, and a wide range of configurable settings

Key Features

Compact and lightweight (19×28×5 mm, 8.5 g)
Continuous current: 25 A (peak 50 A for 2 seconds)
Input voltage: 6–24 V (2–5 S LiPo, 3–6 S LiFe)
Integrated BEC: 8 V / 150 mA
(for powering the receiver or Jetibox only – not suitable for servos)
Protections: overvoltage, undervoltage, overheating, overcurrent, motor stop
Configurable acceleration, timing, reverse, brakeFast Heli/Governor mode, bidirectional mode, and sequencer for control-line models
Low noise due to high-frequency switching
Automatic telemetry detection
(Duplex EX, HoTT, MSB, PowerBox P2Bus, S.Bus2, FrSky)
Logging of min./max. telemetry values

Telemetry – Supported Protocols

Voltage, current, power, capacity, temperature, RPM, energy
Configuration via transmitter, PC (MAV Manager) or JETIBOX
Firmware updates via USB

Safety Instructions

Always remove the propeller before first startup.
Disconnect the battery after flight – even an idle ESC draws a small current.
Do not connect servos to the BEC – only connect the receiver/terminal.
Use only high-quality connectors, well-soldered wires, and maintain correct polarity.
Do not exceed the specified voltage or current limits.
Ensure proper cooling – the ESC must not overheat.

Important Technical Specifications (VOLTA 20CL)

Current: 25 A continuous / 50 A peak
Voltage: 6–24 V (2–5 S LiPo, 3–6 S LiFe)
Max RPM: >300,000 eRPM (2-pole motor)
Telemetry: Duplex EX, MSB, S.Bus2, HoTT, PowerBox P2Bus, FrSky
Temperature range: –10 to +110 °C

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