

# PHOENIX EDGE HV

**Unparalleled Versatility**  
For heli and planes up to 12S



CC-010-0107-00  
**Phoenix EDGE HV-40**



CC-010-0106-00  
**Phoenix EDGE HV-60**



CC-010-0105-00  
**Phoenix EDGE HV-80**



CC-010-0104-00  
**Phoenix EDGE HV-120**



CC-010-0103-00  
**Phoenix EDGE HV-160**



CC-010-0127-00  
**Phoenix EDGE HV-F160**

**The Phoenix EDGE HV Series.**  
Phoenix EDGE HV brings the ability to run at input voltages of up to 12S\* (50V)

**Data Logging**  
The Phoenix EDGE HV brings another incredibly useful feature, extensive data logging capabilities. The controllers are able to measure and record many parameters at sample rates that you choose between 10 samples per second and 1 sample per second.

- Data points include:
- Battery Voltage
  - Battery Ripple
  - Battery Current
  - Controller Temperature
  - Controller Input Throttle
  - Controller Motor Power Output
  - Motor RPM
  - BEC

This data is stored directly in the controller and may be accessed once the run is over using the Castle Link USB adapter (sold separately) and Castle Link software (available free at castlecreations.com). The Max Log Size is 21,504 bytes, everything takes one byte except for motor rpm which takes two.

Logging 'Battery Current' at only a 1 sample/second - 358 minutes of logging time (almost 6 hrs)

Logging 'Motor RPM' at only 1 sample/second - 179 minutes of logging time

Logging everything at only 1 sample/second - 44 minutes of logging time

Logging everything at 10 samples/second - 4 minutes and 28 seconds of logging time

**Technical specs**

Description	Max. Voltage	Ni-xx Cells	Li-xx Cells	Max. Amps	Dimensions	Weight (no Cable)
PHOENIX EDGE HV 40	50V	5-36	2-12	40A	43x46x21mm	31g
PHOENIX EDGE HV 60	50V	5-36	2-12	60A	51x72x23mm	59g
PHOENIX EDGE HV 80	50V	5-36	2-12	80A	51x72x23mm	62g
PHOENIX EDGE HV 120	50V	5-36	2-12	120A	51x84x23mm	69g
PHOENIX EDGE HV 160	50V	5-36	2-12	160A	51x108x31mm	150g
PHOENIX EDGE HV F160	50V	5-36	2-12	160A	51x108x31mm	150g

**Two Versions**  
The EDGE HV comes in two versions, standard version which is optimized for demanding RC heli and sport aircraft applications and a Lite version packaged in heat shrink for users with tight fuselages.

All Phoenix EDGE HV are ready to fly out of the bag, no programming is necessary for most aircraft applications. Advanced users will find the incredible programmability of the Phoenix EDGE allows for performance characteristics tailored exactly to their desires.

Heli users are raving about the performance of Castle's programmable helicopter modes which include options to directly enter desired governed headspeeds as numerical values! Every heli power combination requires slightly varying governor gains, Castle makes these easy to tweak and the net result is a rock solid tail.

**Get the Edge over your competition.**

With the debut of the Phoenix Edge HV series of ESCs the next evolution in speed controller technology has arrived. **The Edge series introduces a user programmable auxiliary wire capable of functions modelers have only dreamed of, until now. The white auxiliary wire can be used for helicopter governor gain input adjustments mid-flight, serve as an audible beacon after an "unexpected landing", act as an RPM output for 3-axis gyros that support RPM sensors, be used as an ESC arming lock or as a receiver arming lock.**