

ESC: AL40A

DATA SHEET

40A Continuous, Burst 55A

2 Year Warranty*



*This Acer-Lab Speed Controller is covered by a 2-Year manufacturers warranty against defects in materials and workmanship by Helivol. During the warranty period Helivol will repair the speed controller if it is found to be defective, providing that it has no signs of damage or abuse.



Features:

Smooth, Linear and precise throttle response.

Lithium Battery "Balance Discharge Monitoring and Protection" Design (BDMP adapter - see below)

Safety Arming - Regardless the throttle stick position, the motor will not spin after battery connected.

Throttle Calibration - Throttle range can be configured to provide best throttle linearity, fully compatible with all market available transmitters.

Full Protection Features - Low voltage cutoff protection / Over-heat protection / Throttle signal lost protection.

Easy Programming of these items: (with transmitter or programming card)

- Brake Setting: brake enabled / brake disabled.
- Battery Type: Li-xx (Li-ion or LiPo) / Ni-xx (NiMH or NiCd).
- Low Voltage Protection Mode(Cutoff Mode): Gradually reduce the output power / Cutoff the output power.
- Low Voltage Cutoff Protection Threshold (Cutoff Threshold): low / medium / high.
- Start Mode: normal / soft / very soft.
- Timing: low / medium / high.
- Reset: reset all the programmable items to its default setting.

Specifications:

Output: Continuous 40A, Burst 55A up to 10secs

Input: 2-6 cells lithium battery or 5-18 cells NiCd/NiMH

BEC: 3A/5V (switch mode)

Speed: Max 210,000rpm @ 2 poles, 70,000rpm @ 6 poles, 35,000rpm @ 12 poles.

Size: 55mm x 28mm x 15mm

Weight: 40g

Materials:

Military standard capacitor with extremely low resistance increases prevention of unwanted RF noise during flying.

Extreme low resistance PCB is used at the power output section to get the best current endurance capability.

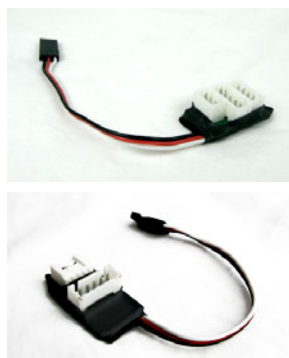
Microprocessor uses separate voltage regulator IC, with good anti-jamming capability.

Available accessories: (pictured)

ESC Programming Card

BDMP (Align style 2-4s)

BDMP (Thunder Power style 2-4s)



BDMP (using the balance adapter):

Balance Discharge Monitoring and Protection (BDMP) Designed for Lipo's. This innovative new system provides real time monitoring of the discharge voltage of each cell in your lipo battery packs. Since each cell is monitored and protected by the ESC, you can expect an even longer life from your battery packs.