

2026 – 2027 NFFS Competition Rules

13 E-20

13.1 Model Eligibility

Projected wingspan not to exceed 20 inches (monoplane only).

No auto-surfaces except dethermalizers.

13.2 Model Weight

Model must weigh at least 1 ounce (28.35 grams).

13.3 Motor Eligibility

Models must use a single commercially available 8520 coreless electric motor (8.5 mm diameter x 20 mm long nominal dimensions). No gear drives are allowed.

13.4 Number of Models Allowed

The contestant is allowed to fly two models in this event. The contestant must declare a model before attempting the first official flight with that model.

13.5 Propeller

The propeller must be commercially available with a maximum diameter of 2.7 inches (68 mm).

13.6 Battery

The battery required is a single cell lithium based rechargeable battery.

There is no limit on mAh capacity.

13.7 Motor timer

Use of an electronic or mechanical timer is acceptable.

13.8 Official flights and scoring

Three official flights with a maximum of 90 seconds each are scored. Two (2) attempts are allowed for each official flight. If the first attempt is declared, the second flight score will be counted regardless of time.

The maximum motor run is 15 seconds.

13.9 Fly-off flights

The flight maximum is 90 seconds for the first and all subsequent fly-off flights. The maximum motor run is 8 seconds. All fly-off flights are official. No second attempts are allowed.

13.10 Attempts

A motor timer malfunction (fails to shut off or restarts once stopped) is an attempt.

A flight of less than 20 seconds is an attempt, but it can be used as an official flight if the contestant so chooses. This decision must be made immediately and cannot be reversed later.