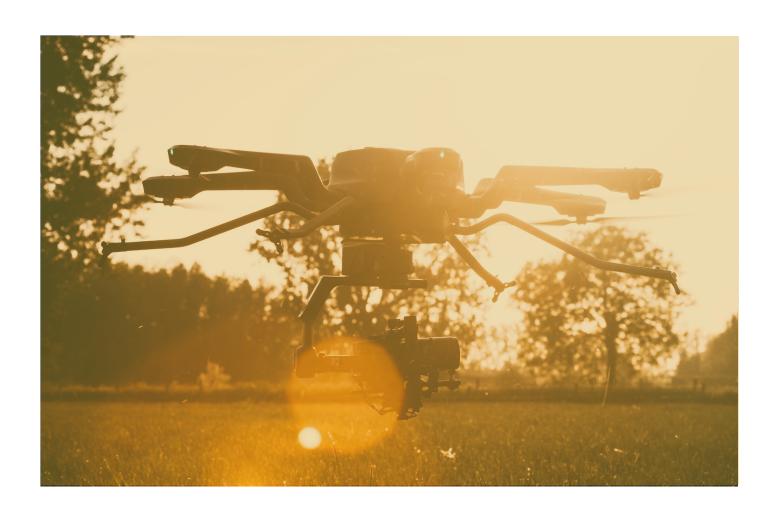


# ACECORE TECHNOLOGIES NOA 6 < 25 KG

SPECIFICATION SHEET



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## Section 01 Product Description

#### **DESCRIPTION**

Noa is the ultimate multipurpose Remotely Operated Aerial Vehicle for commercial use. Its six enlarged custom Acecore rotors were designed to enable the Pilot in Command to fly for an extended amount of time with various payloads. Thanks to Noa's modular quick release, there is no limit to the amount of payload that can be used. Gremsy, Freefly, DJI, and LiDAR all fall within the possibilities. Due to the flexibility in battery options, users can balance payload and battery weight to allow for optimal flight efficiency. The six aerodynamic carbon fiber booms can be removed and redeployed through Acecore's quick-release system, allowing for improved portability and a toolless setup.



#### **GENERAL FEATURES**

Robust carbon fiber frame

Up to 8.1 kg kilograms useful payload

Up to 60 minutes of real-world flight time

500M/ 5KM/ 16KM range options

Downfall resistant

Single or dual-operator setup

ADS-B ready transponder

AES256 encrypted radio link

Triple redundant autopilot

Dual GNSS GPS



### Section 02 Product Specifications

#### **SPECIFICATIONS**

#### **WEIGHTS**

Maximum gross for takeoff 24.9 kg/ 54.9 lbs

Maximum payload 8.1 kg / 17.9 lbs

Minimum standard empty weight 11.4 kg / 25.1 lbs

**DRIVE** 

Energy type Flectrical

Number of motors 6

Motor type Direct Drive 3-phase BLDC out runner

Operating voltage 42V - 52V

Motor max continuous Power 2000 W

Idle speed 120 RPM/V

Number of ESCs 6

Max continuous current draw 40A/ motor

**PROPELLER** 

Material Carbon Fiber Reinforced Plastic (CFRP) / foamed

core 3K Twill weave

Propeller setup 3 CW and 3 CCW propeller

Propeller type 28 x 9.2 inch fixed propeller

**PAYLOAD** 

Vibration isolation system Octo metal wire damper system

Mounting options Top and bottom mounting possible

Mounting system Depending on users preference

Battery rack Top of centerpiece locked by shark fin



## Section 02 Product Specifications

#### **AVIONICS**

Flight controller Cube flight controller

Version Orange/ Blue

Operating temperatures -40°C (-40°F) to +85°C (185°F)

#### **FLIGHT BATTERY**

Energy type Electrical

Battery Lithium Polymer

Recommended make and models 11000mAh, 17000mAh, 23000mAh

Nominal battery voltage 48 V/ 12S

Minimum battery quantity 2x double battery pack serial

Maximum battery voltage 52V

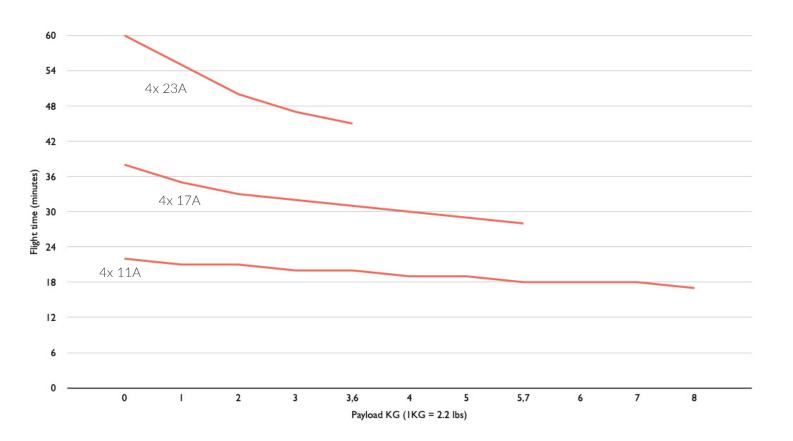
Minimum average battery voltage 42V



## Section 03 Flight table

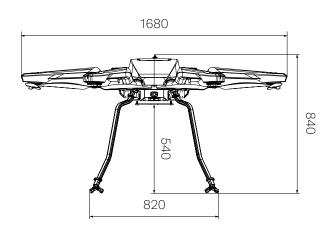
#### **FLIGHT TIMES**

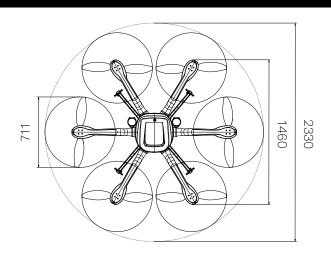
These flight times are representations of the typical flight time in normal conditions and depend on several factors. The conditions in which these flight times have been tested are at 20°C ambient temperature, and a nominal wind speed of 8 knots while hovering at a height of 5 meters above ground. The Noa is put back on the ground with 10 percent battery capacity left.





## Section 04 Physical





#### **DIMENSIONS**

Frame dimensions (lxwxh) 1680x1680x840 mm

Rotor to rotor diagonal 1680 mm

Diameter with propellers 2330 mm

Height up to payload quick release 540 mm

Ground clearance to propeller 670 mm

#### **WEATHER LIMITATIONS**

Maximum operating temperature +50°C

Minimum operating temperature -15°C

Maximum flight endurance 60 min

Maximum wind speed 28 knots

Maximum wind gusts 35 knots

Maximum precipitation Moderate rain conditions, although it is recom-

mended to fly in dry conditions.

Maximum downfall 10 mm/h, 30mm/3h



## Section 05 Flight limitations

#### **FLIGHT LIMITATIONS**

Maximum pitch/ roll angle 45 Degrees from horizontal

Maximum yaw rate 150 Degrees per second

Maximum flight speed 85 km/h horizontal

Flight modes GPS mode – Attitude mode – Auto mode – Brake

- Stabilize

Typical ascent 5m/s

Typical descent 4m/s

Hovering accuracy Vertical 0.05m/ Horizontal 0.05m

RTL cruise speed Variable from 3 m/s to 9 m/s

