

ACECORE TECHNOLOGIES NOA 6 <25 KG

SPECIFICATION SHEET



Section 01 Product Description

DESCRIPTION

Noa is the ultimate multipurpose Remotely Operated Aerial Vehicle for commercial use. Its six enlarged custom Acecore rotos 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 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	Electrical
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

Propeller setup Propeller type

PAYLOAD

Vibration isolation system Mounting options Mounting system Battery rack 6 40A/ motor Carbon Fiber Reinforced Plastic (CFRP) / foamed core 3K Twill weave 3 CW and 3 CCW propeller

28 x 9.2 inch fixed propeller

Octo metal wire damper system Top and bottom mounting possible Depending on users preference 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

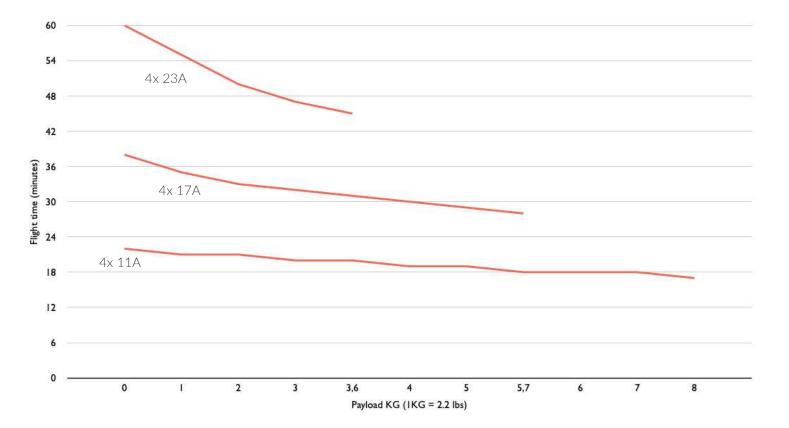
Lifergy type	Licetrical
Battery	Lithium Polymer
Recommended make and models	11000mAh, 17000mAh, 23000mAh
Nominal battery voltage	48 V/ 12S
Minimum battery quantity	2x double battery pack serial
Maximum battery voltage	52V
Minimum average battery voltage	42V



Section 03 Flight table

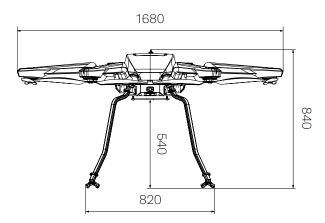
FLIGHT TIMES

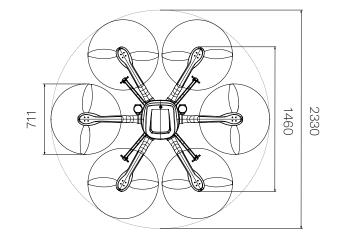
These flight times are representations of the typical flight time in normal conditions and depends on several factors. The conditions in which these flight times have been tested are at 20°C ambient temperature, a nominal wind speed of 8 knots while hovering at a height of 5 meters above ground. The 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 Maximum yaw rate Maximum flight speed Flight modes

Typical ascent Typical descent Hovering accuracy RTL cruise speed 45 Degrees from horizontal 150 Degrees per second 85 km/h horizontal GPS mode – Attitude mode – Auto mode – Brake – Stabilize 5m/s 4m/s Vertical 0.05m/ Horizontal 0.05m Variable from 3 m/s to 9 m/s

