

## NOVA Series

# NOVA 4-50-B4 P20 LW

Inrunner BLDC motor with closed housing

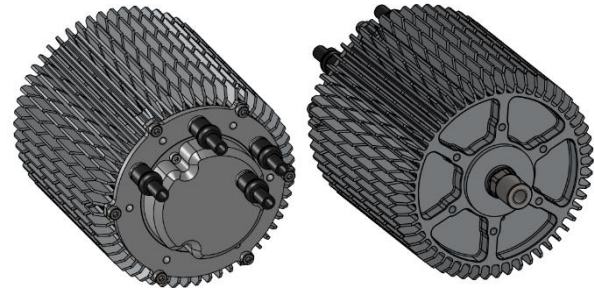


### Overview

The NOVA 4 Light-Weight ("LW") is from our family of super rugged inrunner BLDC motors and has been specifically designed for the most demanding applications, including uncrewed systems and aerospace.

### Features

- Super robust housing for mission critical applications in the harshest environments
- Best power-to-weight-to-robustness ratio in its class
- Position and temperature sensors included in standard
- Optimized shaft for Plettenberg propeller coupling



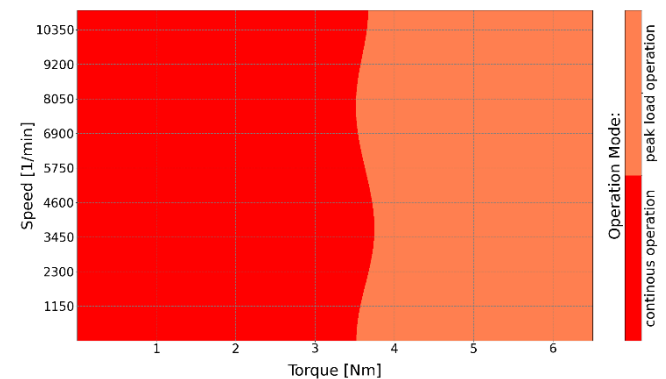
### Specifications

Peak output power	4	kW
Peak torque <sup>1</sup>	6.5	Nm
Max. speed	11,000	rpm
Voltage range	15-30	V
Speed constant (kV)	330	rpm/V
Diameter	79	mm
Length	81	mm
Weight	970	g
Phase cable length	100	mm
Sensor cable length	400	mm
Protection class	IP54	
Mounting	Front & back	
Cooling	Air cooled	
Ambient Temperature range	-20 to +60	°C
Max. temperature of stator (as measured by sensor)	+100	°C
Position sensor types	Hall effect sensor with UVW-commutation signals	
Temperature sensor	NTC 47 kΩ	
Number of poles	20	
Number of windings	4	
Peak thrust	19 kg with 24x8.1"	

### Complementary Products

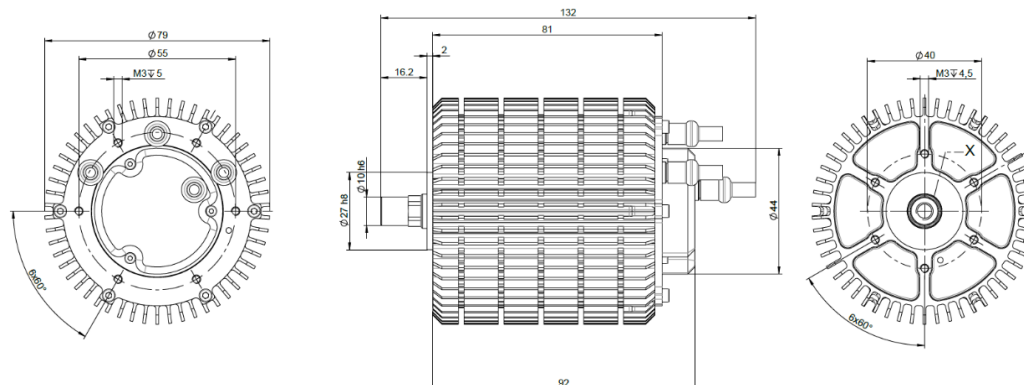
- Plettenberg propeller coupling: PC LW 6K 10mm
- Plettenberg ESCs: MST 60-80, MST 60-130
- Plettenberg gold connectors: GC6-00 / GC6-90

### Heatmap



Notes:

<sup>1</sup> With sensor-guided ESC



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