

## NOVA Series

# NOVA 15-50-B4 P30 LW

Inrunner BLDC motor with closed housing

### Overview

The NOVA 15 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

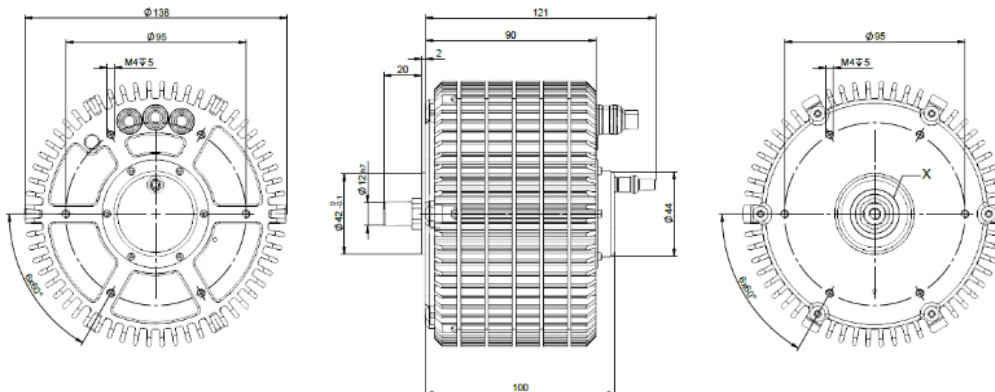
- Super robust housing for mission critical applications in the harshest environments
- Best power-to-weight-to-robustness ratio in its class
- Position and temperature sensors included in standard
- Optimized shaft for Plettenberg propeller coupling

### Specifications

Peak output power	15	kW
Peak torque <sup>1</sup>	40	Nm
Max. speed	8,000	rpm
Voltage range	15-80	V
Speed constant (kV)	99	rpm/V
Diameter	138	mm
Length	90	mm
Weight	2,800	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	30	
Number of windings	4	
Peak thrust	67 kg with 42x15.2" prop	

Notes:

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



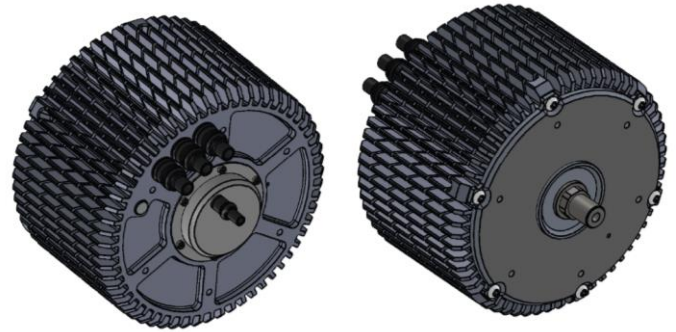
Plettenberg Elektromotoren GmbH & Co. KG  
Rostocker Straße 30  
34225 Baunatal, Germany  
T: +49 (0) 56 01 97 96-0

www.plettenbergmotors.com / sales@plettenbergmotors.com

© 2024 Plettenberg Elektromotoren GmbH & Co. KG. All rights reserved.



**PLETTENBERG**



### Complementary Products

- Plettenberg propeller coupling: PC LW 6K 12mm
- Plettenberg ESCs: MST 60-260, MST 60-290, MST 60-130, MST 80-240, MST 80-350
- Plettenberg gold connectors: GC6-00 / GC6-90

### Heatmap

