### **NOVA Series**

# **PLETTENBERG**

## NOVA 15-30-B10 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 mission critical applications, including uncrewed systems and aerospace.

#### **Features**

- Super robust housing for applications in the harshest environments
- Designed for high shock and vibration loads
- Qualified to MIL-STD 810H
- Best power-to-weight-to-robustness ratio in its class
- Wear-free position and temperature sensors included in standard
- Optimized shaft for Plettenberg propeller coupling





#### **Specifications**

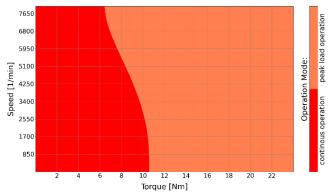
02-044.030.1	2-000-344
9	kW
24	Nm
8,000	rpm
30-120	V
65	rpm/V
138	mm
70	mm
2,040	g
100	mm
400	mm
4	mm² AWG
IP54	71110
Front & back	
Both	
Air cooled	
-20 to +60	°C
+100	°C
Hall effect sensor with UVW-commutation signals	
NTC 47 kΩ	
30	
10	
48 kg with 40x13.3" prop	
	9 24 8,000 30-120 65 138 70 2,040 100 400 4 12 IP54 Front & back Both Air cooled -20 to +60 +100 Hall effect se UVW-commu NTC 47 kΩ 30 10

#### Notes

## **Complementary Products**

- Plettenberg propeller coupling: PC LW 6K 12
- Plettenberg ESCs: MST 60-130, MST 60-260, MST 80-240, MST 140-200
- Third party ESC from Allocortech
- Plettenberg gold connectors: GC6-00 / GC6-90

### Heatmap



Note: Assuming 25°C ambient temperature and 10 m/s airflow.

## **Options & Customization**

- Custom winding/kV versions
- MIL-STD 810H test reports
- MTBF/S report
- IP67 protection class
- Aerospace or MIL-DTL-38999 connectors
- Mechanical customization or frameless kits
- High/low temperature versions
- High RPM versions
- Propeller study
- RTCA DO160 qualification

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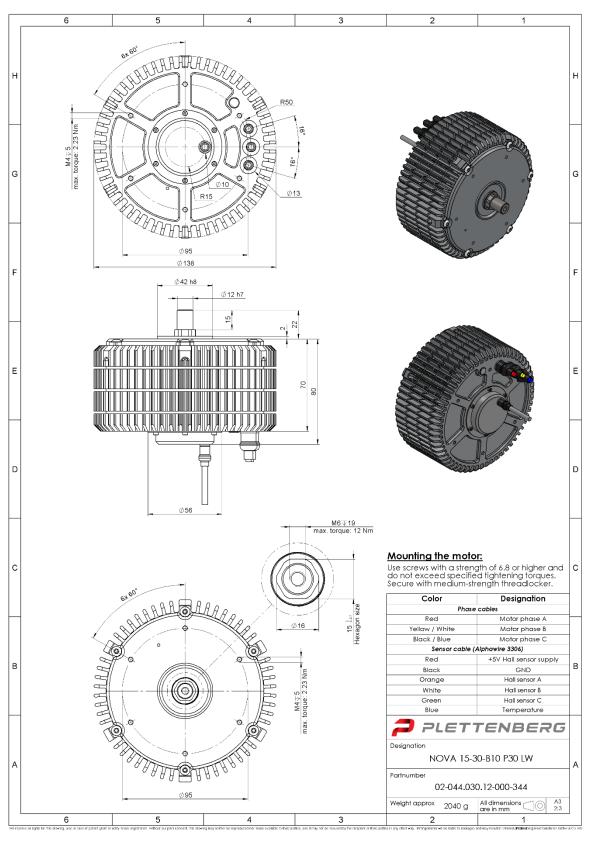
 $<sup>^{(\!1\!)}</sup>$  Peak torque with sensor-guided ESC. If using sensorless ESC, peak torque may be 10-20% lower.

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