

MVG MOTORS

High-power motors that seamlessly integrate and complete a full battery system for OEM application needs.

BRUSHLESS PERMANENT MAGNET

> Ensures high efficiency.

AUTOMOTIVE-GRADE DURABILITY

> Built to automotive standards for unmatched reliability. Delivers outstanding resilience and reliability.

MAINTENANCE-FREE OPERATION

> Designed to operate without the need for regular maintenance.

EASY INTEGRATION FEATURES

> Reduces development costs and enhances flexibility for legacy applications. Standard mounting to support ICE replacement.

SERVICEABLE PRODUCTS

> Helps avoid costly replacements.



MOTORS

TECHNICAL SPECIFICATIONS



| SPECIFICATION | MVG1500 | MVG1500 | MVG1500 | MVG3500 | MVG5000 |
|--|---|--|--|---|---|
| MOTOR TYPE | Brushless PM | Brushless PM | Brushless PM | Brushless PM | Brushless PM |
| APPLICATION | Deck | Deck | Transmission | Utility | Utility |
| VOLTAGE CLASS | 48V | 48V | 48V | 48V | 48V |
| VOLTAGE RANGE | 24-72V | 24-72V | 24-72V | 24-72V | 24-72V |
| OUTPUT POWER (CONTINUOUS) | 1.5 kW | 1.5 kW | 1.5 kW | 3.5 kW | 5 kW |
| OUTPUT POWER (PEAK) | 3.5 kW | 3.5 kW | 3.5 kW | 6 kW | 7.5 kW |
| TORQUE OUTPUT CONTINUOUS | 5 Nm | 4 Nm | 5 Nm | 9.6 Nm | 13.6 Nm |
| MAXIMUM TORQUE | 20 Nm | 17 Nm | 20 Nm | 28 Nm | 47 Nm |
| BASE SPEED | 3200 RPM | 4000 RPM | 3200 RPM | 3500 RPM | 3500 RPM |
| MAXIMUM SPEED | 4000 RPM | 4000 RPM | 4000 RPM | 4500 RPM | 4500 RPM |
| EFFICIENCY (PEAK) | >87% | >87% | >87% | >92% | >92% |
| MINIMUM OPERATING TEMPERATURE RANGE | -4°F / -20°C | -4°F / -20°C | -4°F / -20°C | -4°F / -20°C | -4°F / -20°C |
| MOTOR D-RATE TEMPERATURE | 176°F / 80°C | 176°F / 80°C | 176°F / 80°C | 248°F / 120°C | 248°F / 120°C |
| MOTOR OFF PROTECTION TEMPERATURE | 212°F / 100°C | 212°F / 100°C | 212°F / 100°C | 284°F / 140°C | 284°F / 140°C |
| ENCLOSURE RATING | IP65 | IP65 | IP65 | IP66 + Pressure Wash | IP66 + Pressure Wash |
| D X L BODY / PTO (MM) | With mounting included: Diameter - 224 Height - 187 | With mounting included: Diameter - 246.22 Height - 160.6 | With mounting included: Diameter - 246.22 Height - 160.6 | Mount type: SAE J609 Diameter - 170 Length with shaft - 248.3 | Mount type: SAE J609 Diameter - 170 Length with shaft - 288.3 |
| WEIGHT (KG) | 8.07 | 7.8 | 8.07 | 10.2 | 15.0 |

VANGUARD™

BRIGGS & STRATTON

Milwaukee, WI 53201-0702 USA
(414) 259-5333

Wolleraustrasse 41
8807 Freienbach, Switzerland

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WWW.VANGUARDPOWER.COM

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