

SLB 65MX LIGHTBEE

Electric Performance Motor

HIGH-EFFICIENCY EV DRIVE MOTOR



VOLTAGE

72–108 V

PEAK POWER

65 kW

PEAK TORQUE

96 Nm

EFFICIENCY

≥95%

PERFORMANCE OVERVIEW

System Capabilities

VOLTAGE RANGE

72–108 V

PEAK POWER

65 kW (86.8 HP)

PEAK TORQUE

96 N·m

MAX PHASE CURRENT

850 A_{RMS}

MAX EFFICIENCY

≥95%

MAX STABLE SPEED

12,000 RPM

APPLICATION NOTE

The SLB 65MX is engineered specifically for high-performance electric vehicle powertrains requiring sustained torque density and thermal stability. Its internal permanent magnet (IPM) architecture allows for extended field-weakening operation, making it suitable for both high-torque acceleration and high-speed cruising in light-to-medium weight EV platforms.

TECHNICAL DATA

Specifications

ELECTRICAL SPECIFICATIONS

Rated Power (Continuous)	25 kW
Peak Power @ 72V	42 kW
@ 82V	50 kW
@ 96V	58 kW
@ 108V	65 kW
Max Phase Current (RMS)	850 A
Phase Resistance	~1.4 mΩ
Phase Wire Terminal	35 mm ² (M6 Hole)

MECHANICAL SPECIFICATIONS

Shaft Diameter	20 mm
Shaft Material	20MnCr5 Steel Alloy
Bearing Type	SKF Sealed Deep Groove
Pole Pairs	5
Waterproof Rating	IP67

TORQUE VS RPM

Torque Characteristics



