



Liveguard™

**DRIVEN BY
TECHNOLOGY
POWERED BY
INNOVATION**



ABOUT LIVGUARD

Livguard boasts a legacy of 35-year with cutting-edge electromobility solutions. With five state-of-the-art manufacturing locations, we are India's fastest-growing Energy Transition company.

At Livguard, we understand that every step counts in your journey towards a sustainable future. That's why we proudly offer custom-built end-to-end products, solutions, and services tailored to your unique needs. Our 35+ company-owned service centers, 2000+ service hubs with a 24/7 hotline, and a 750+ trained field service force ensure that your electromobility solutions are always in top-notch condition.

Behind our success is a 200+ strong R&D team across every segment, tirelessly developing cutting-edge solutions for light-electromobility applications. Our quality-driven approach ensures that innovative products and solutions are delivered by experienced professionals, manufactured with automotive process excellence.

We don't just offer solutions; we build lasting partnerships. Join us on the journey towards a sustainable tomorrow, where our commitment to innovation and service is second to none.



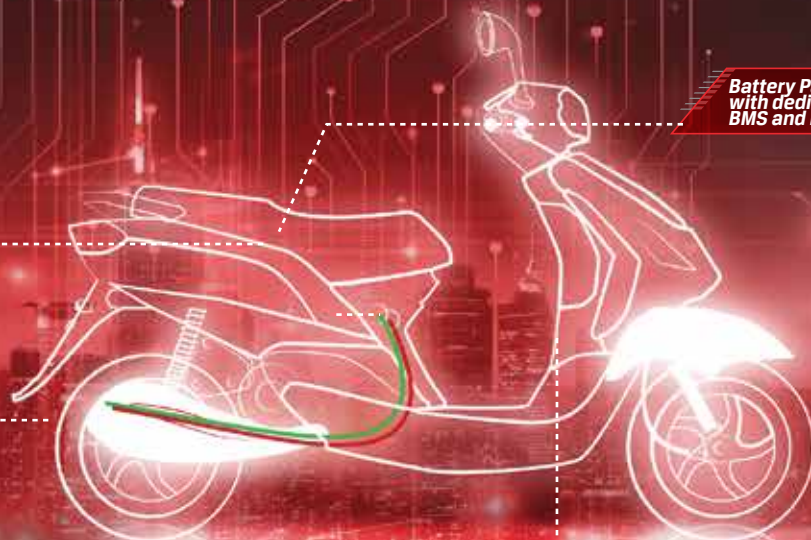
Off-board Charger



High performance in-wheel motors



Drive Control Unit



Battery Pack with dedicated BMS and IOT



2 WHEELER MOTOR



Motor	10 Inch Hub Motor for E-2W	12 Inch Hub Motor for E-2W	Mid Motor for E2W
Type	BLDC MOTOR	BLDC MOTOR	PMSM MOTOR
NOMINAL VOLTAGE	48-72 V	48-72 V	48-72 V
PEAK TORQUE	100 Nm	140-160 Nm	36-48-60 Nm
PEAK POWER (S2 – 60 Sec)	3 – 3.5 kW	4 – 5 kW	5.5 – 9.5 kW
RATED POWER (S2 – 30 Min)	1.5 – 1.7 kW	2 – 2.5 kW	3.3 – 5.0 kW
NO LOAD RPM	650- 750 RPM	800-900 RPM	5000 RPM

FEATURES

**Indigenously
Designed**

**IP 67 for
durability**

**High Torque Output,
ensuring quick and
smooth acceleration**

**Temperature
Sensor for
better protection**

**Efficient design for
range optimization
and longer battery life**

**Balancing of the
Rotor to eliminate
mechanical failures**

**Highest
mileage**

**Most cost
effective solution**

2W CONTROLLER



TECHNICAL SPECIFICATIONS	
Rated Voltage	48V
DC Rated Current	55A +/- 1A
Rated Power	2860W
Average Power	1500 W to 1700W
MOSFETS	12 No's
Control Technique	Field Oriented Control
Motor Feedback	Hall Sensor
Braking System	Hard/Soft Brake (Regenerative Braking)
Battery Type	Li-Ion
Motor Rating	1500W to 1700W
IP Grade	IP67
Rated Efficiency	>95%
Type of Cooling	Air
Base Heat Sink Material	Al.
Enclosure Cover Material	Alloy Polycarbonate
Weight	(1.5 +/- 0.02) Kg
Dimensions (LXWXH) mm	(228.5x110x74.5)mm
Ambient Operating Temperature	0°C to +55°C
Storage Temperature	-10DegC to +55Deg C

*Specifications are subject to change without Prior notice due to constant improvement in design & technology

**Efficiency, range & speed are based on test results conducted during R&D.

FEATURES

Coasting Regen	Wheel Stuck Protection	Braking Regen	CAN Communication	Fault Indication
Thermal Protection	Over Voltage Protection	Under Voltage Protection	Hall Protection	

LITHIUM BATTERY



TECHNICAL SPECIFICATIONS

Model	LGLOE2LiX40	LGLOHSLiX40	LGLOHSLiX60	LGLOGEMLiX60
Pack Capacity	40AH	45Ah	60Ah	60Ah
Rated Energy	2kWh	2.3kWh	3kWh	3kWh
Cell Type	NMC - Cylindrical	LFP- Cylindrical	LFP- Cylindrical	LFP- Cylindrical
DOD	85%	90%	90%	90%
Cooling	Passive	Passive	Passive	Passive
Nominal Voltage	51.1V	51.2V	51.2V	51.2V
Charging CV Voltage	57.8V	55V	55V	55V
Charging Current(Nominal)	22A	30A	30A	30A
Discharging Current(Nominal)	40A	45A	60A	60A
Peak discharging current (10 Sec Duration)	60A	105A	90A	105A
Connector type	SBS75X	Amphenol	Flying leads	Amphenol
Operating Temperature	5°C ~ 55°C	0°C ~ 60°C	0°C ~ 60°C	0°C ~ 60°C
Dimensions	224mmx171mm x 296mm	230mmx165mm x340mm	270mmx165mm x375mm	250mmx199mm x371mm
Weight	~18kg	~20kg(without PCM)/ ~22kg(with PCM)	~29kg (with PCM)	~29kg (with PCM)
IP Class	IP67	IP67	IP67	IP67
Charging mode	Adaptive CC-CV	Adaptive CC-CV	Adaptive CC-CV	Adaptive CC-CV
Recommended Mounting	Vertical	Vertical	Vertical	Vertical
Communication	CAN2.B / BLE / RS485	CAN2.B	CAN2.B	CAN2.B

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FEATURES

Built-in Telematics feature for continuous monitoring of performance

Safety against over-charging and short circuit scenarios

Bluetooth enabled on demand

Superior Dual PRV design

Built-in Audio-Visual Indication for Thermal Runaway detection

High Efficiency Mosfets to cater large currents in automotive applications

Efficient Charging Algorithm

Configurable General Purpose Input / Output ports

Compliant to latest AIS156 Amendments

DRIVEN BY AI

UNLEASHING THE FULL POTENTIAL OF BATTERIES
USE LONGER, BE SAFER, CHARGE FASTER

ADVANCED BATTERY INTELLIGENCE



REALTIME ACTIONABLE INSIGHTS

