Preliminary, subject to change without notice

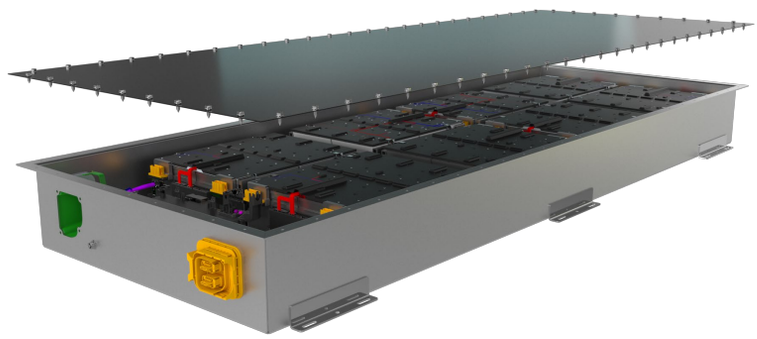
Datasheet

LION Smart Mobility Power 53 narrow

E-Bus

E-Truck

E-Off Highway



Features

Availability
- Samples available Q1/2025

Ideal for E-Bus & E-Truck and more
- Integration between and besides the ladder frame/beams
- 30” width for US requirements

High peak power
- High peak power capability
- Fast charging compatibility

Customizable setup
- Connectivity up to 12 batteries via gateway up to 634 kWh
- Ideal for 400V and 800V architecture

High quality components
- NMC battery cells
- High quality electronic components and algorithms

Easy integration
- Contact protection on pack level
- Standardized interfaces & customized software

Designed for critical mobility applications
- Safety certified Battery Management Systems (BMS)
- Robust passive safety structure

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Standards Compliance

- ECE R100 Battery safety
- ECE R10 EMC
- UN 38.3 Transport Safety
- ISO 16750 Environmental conditions
- Functional safety: ISO 26262 ASIL C
- Fully compliant for a wide range of mobility applications and use cases

Parameter	Unit	Value
Configuration (Modules x Cells)		96s1p (8 x 12)
Battery Cell Chemistry		NMC
Charging end point (operation)	V	417.6
Nominal Voltage (DC)	V	359.0
Discharge end point (operation)	V	268.8
Nominal Capacity	Ah	147
Energy Content (nominal)	kWh	52.8
End of Life (State of Health)*	%	70
Cycle Life (@25°C ambient, 1C/1C & 100% DoD)	#	>2,500
Cycle Life (@25°C ambient, 1C/1C & 80% DoD)	#	>3,000
Protection class (IP class)		IP67, IP6K9K
Dimensions (L x W x H) Housing	mm	1870 x 760 x 174
Total Weight (depending on variant)	kg	approx. 285
Humidity Range (during storage)	%	0-90 (no condensation)
Heating	kW	1 (optional equipment)
Cooling (Direct Refrigerant)		By water-glycol

*Further use beyond this point is not recommended for safety reasons.

Contact Info

sales@lionsmart.com

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