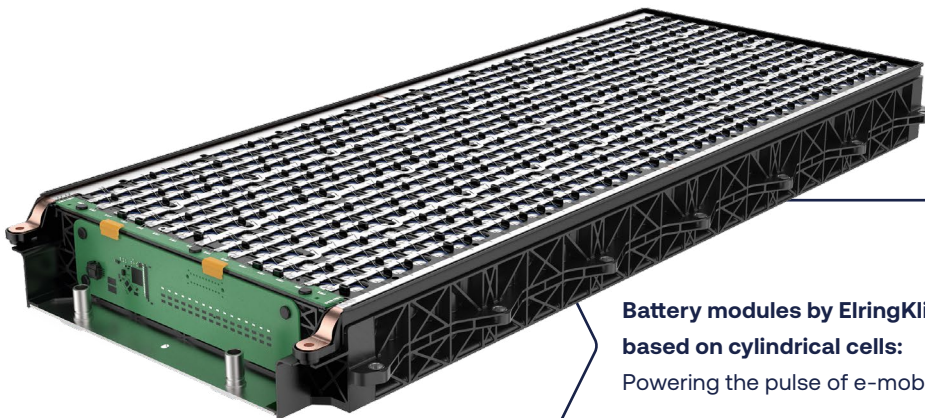


FACT SHEET

120 V Battery module



Battery modules by ElringKlinger based on cylindrical cells:
Powering the pulse of e-mobility.

The cylindrical lithium-ion battery module from ElringKlinger represents a powerful 120 V standard solution for traction batteries.

It can be connected in series to achieve a pack voltage of up to 500 V. Additionally, the module can be adjusted to meet individual customer requirements.

Technology

- » Module assembly of the 21700-cell format
- » Assembly of components with production ready technology
- » IsoSPI communication
- » Integrated voltage and temperature measurement via isoSPI
- » Integrated passive cell balancing via isoSPI
- » Wire bonding (single cell fuse)
- » Hot spot redundance cell temperature measurement
- » Module mounting (stackable, underbody mounting)
- » Plastic module frame
- » Active cooling integrated

Parameters

- » 120 V standard module comprised of 576 cylindrical lithium-ion cells (21700)
- » Connection in series possible up to an integrated pack voltage of 500 V
- » Depiction of various module voltage levels (48 V, 60 V and 120 V)
- » High module part variation (optional without integrated cooling, cell contacting system 48 V, 60 V or 120 V, cover optional)

Benefits

- » Maximum reliability due to function integration
- » High energy density
- » Flexible module variants

Specifications

36s16p BATTERY MODULE

CELL TECHNOLOGY	Lithium-ion (NMC)
CELL TYPE	21700 cylindrical cells
MODULE SET UP	36s 16p
DIMENSIONS (MM)	886 x 407 x 81
WEIGHT (KG)	50.6
MECHANICAL INTERFACE	14 x M6
NOMINAL VOLTAGE MODULE / PACK (V)	132.8 / up to 500
NOMINAL CAPACITY (AH)	79.2
NOMINAL ENERGY (KWH)	10.5
NOMINAL SPECIFIC ENERGY (WH/L)	358
NOMINAL GRAVIMETRIC ENERGY (WH/KG)	207.5
MAX. CONTINUOUS CHARGE (A / C-RATE / KW)	55 / 0.7 / 7.3
MAX. CONTINUOUS DISCHARGE (A / C-RATE / KW)	86 / 1.1 / 11.4
MAX. PULSE DISCHARGE CURRENT (10S) (A / C-RATE / KW)	269 / 3.4 / 35.7
OPERATING TEMPERATURE (°C)	Operating temperature cells: -20 to +55
THERMAL MANAGEMENT	Cooling plate (water/glycol)
THERMAL INTERFACE	Quick connector Ø14
COMMUNICATION INTERFACE	IsoSPI interface
ELECTRICAL INTERFACE	M6 (DC +/-)
SAFETY FEATURES	Temperature Sensor + Bond wire fuse
LIFE-TIME (UNTIL 80% CAPACITY)	> 1,000 cycles / depending on operating Strategy & DoD
CONFORMITY	UN 38.3

**ELRINGKLINGER – YOUR PARTNER
FOR E-MOBILITY SOLUTIONS WITH
BATTERY TECHNOLOGY**

Cell Expertise – Module and Pack Design – Installation Space Optimization –
Simulation and Testing – Certification – Prototyping – Process Engineering –
Industrialization – Integrated Solutions and Components – Recycling

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▶ **SHAPE**³⁰

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the ElringKlinger Group

