

VERSORA NMC Battery System

For Heavy Duty Electric Vehicles



E-Vehicles



Industrial



Light Mobility
& Transport



Portables



Stationary
Storages



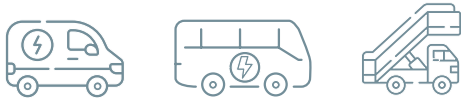
Innovation

VERSORA NMC Battery System

The modular battery system, consisting of two different module shapes (**Compact & Versus**), enables an ideal fit to the specific needs of each application, such as:

Electric buses

(including trolleybuses, airport buses, city buses, hydrogen buses, school buses)



Heavy-duty applications

operating On-Road/Off-Road (construction, agriculture, specialty applications)



Technical Details

Variant	Compact	Versus
Type of cell	Prismatic NMC	
String Topology	Up to 192S on the system level	
Module Topology	32S01P and 48S01P	80S01P and 96S01P
Nominal Capacity	165 Ah	
System Voltage (100% DOD)	voltage class. B_420, B_470 80S: 300V (263 V ... 344 V) 96S: 360V (315 V ... 412 V) 112S: 420V (368 V ... 481 V)	voltage class. B_750, B_850 160S: 600V (526 V ... 688 V) 176S: 660V (578 V ... 756 V) 192S: 720V (631 V ... 825 V)
String Energy	voltage class. B_420, B_470 80S: 49,5 kWh 96S: 59,4 kWh 112S: 69,3 kWh	voltage class. B_750, B_850 160S: 99,0 kWh 176S: 108,9 kWh 192S: 118,8 kWh
Dimension (L x W x H)	980 x 650 x 140 mm (w/o connectors) 1040 x 650 x 140 mm (incl. connectors)	1880 x 650 x 140 mm (w/o connectors) 1940 x 650 x 140 mm (incl. connectors)
Energy density	Up to 190 Wh/kg	Up to 195 Wh/kg
Discharge current @ +10 ... +45°C	Const: >1C @ SOC >25%, up to 200 A Peak 30sec.: 300 A @ SOC >= 15% SOC	
Charge current @ +25 ... +45°C	RMS 102 A (standard charge) @ SOC 0...80% Const Fast Charge: 200A @ SOC 10% ... 65%	
IP Rating	IP67	
Parallel connection	possible up to 8 battery strings (with external Master BMS)	
Regulations and Standards Consideration	ECE R10.07, ECE R100.04, UN 38.3, Regulation (EU) 2023/1542, ISO 26262, GBT 31467.3 (vibration), ISO 12405 (vibration), ISO 14229 (UDS), SAE J1939 (including DM messages), ISO 7637-2, Support for certification R155/R156 (Cyber security)	



Any questions?

Contact us, we will be pleased to advise you.

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