

VERSORA Battery System

designed for heavy-duty applications



E-Mobility



Drive
System



Energy Storage
Systems



Power- and
Garden Tools



Industrial



Medical

VERSORA NMC Battery System

The **modular battery system**, consisting of two different battery 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 Information

Variant	Compact	Versus
Type of cell	Prismatic NMC	
String Topology	up to 192S on the system level	
Battery topology	48S01P / 32S01P	96S01P / 80S01P
Nominal Capacity	165 Ah	
System Voltage (100% DOD)	voltage class. B_420, B_470	voltage class. B_750, B_850
	80S: 300V (263 V ... 344 V)	160S: 600V (526 V ... 688 V)
	96S: 360V (315 V ... 412 V)	176S: 660V (578 V ... 756 V)
	112S: 420V (368 V ... 481 V)	192S: 720V (631 V ... 825 V)
String Energy	voltage class. B_420, B_470	voltage class. B_750, B_850
	80S: 49,5 kWh	160S: 99,0 kWh
	96S: 59,4 kWh	176S: 108,9 kWh
	112S: 69,3 kWh	192S: 118,8 kWh
Dimension (L x W x H)	980 x 650 x 140 mm (w/o connectors)	1880 x 650 x 140 mm (w/o connectors)
	1040 x 650 x 140 mm (incl. connectors)	1940 x 650 x 140 mm (incl. connectors)
Energy density	up to 195 Wh/kg	up to 190 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 R10.06, ECE R100.03, 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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