

SCANIA BIODIESEL AND ELECTRIFIED SOLUTIONS



PRODUCT OFFERING

Combustion Engines

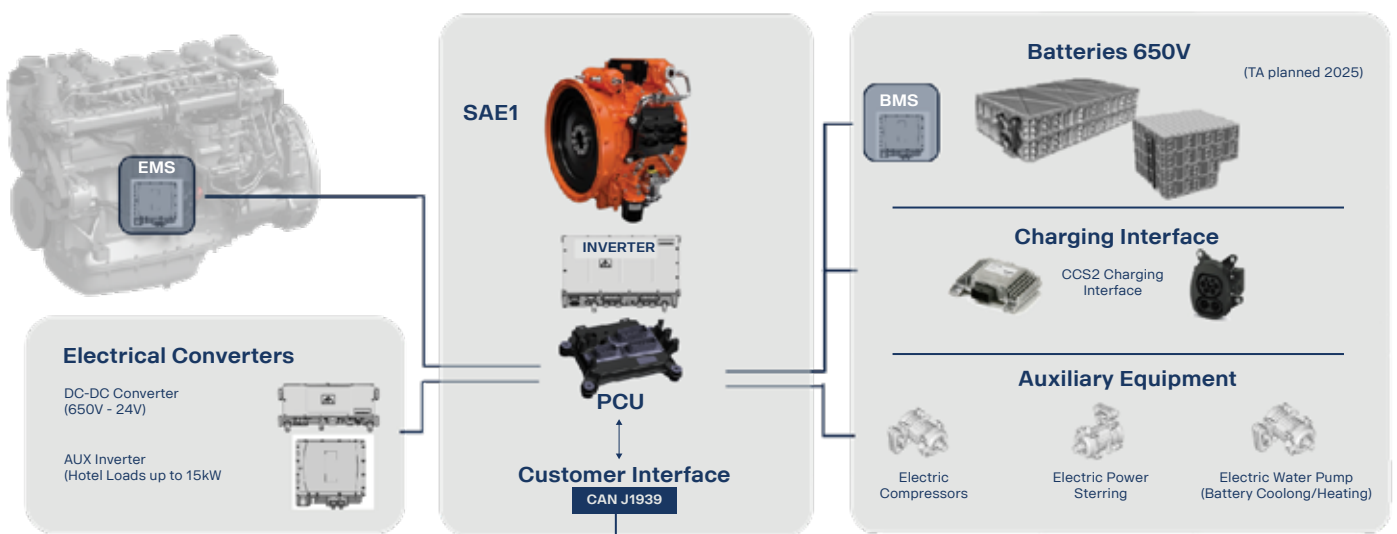
9L, 13L and 16L

E-Machine 650V

Continuous Power Range
150kW, 175kW, 200kW, 230kW

START OF DELIVERY

SEPT 2024

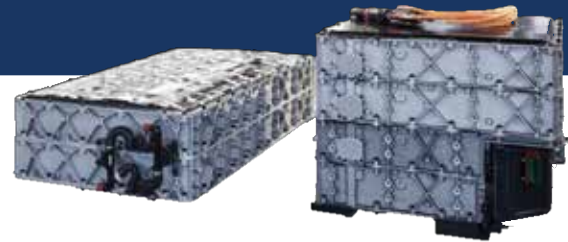


J1939	Drive Mode
"1": "Store Energy Source Sustaining",	Hybrid, Zero Current
"2": "Store Energy Source Increasing",	Hybrid Charging
"3": "Store Energy Source Depleting",	Hybrid Discharging
"4": "Store Energy Source Offline",	Diesel Mode
"5": "Store Energy Source Only",	Electric Mode

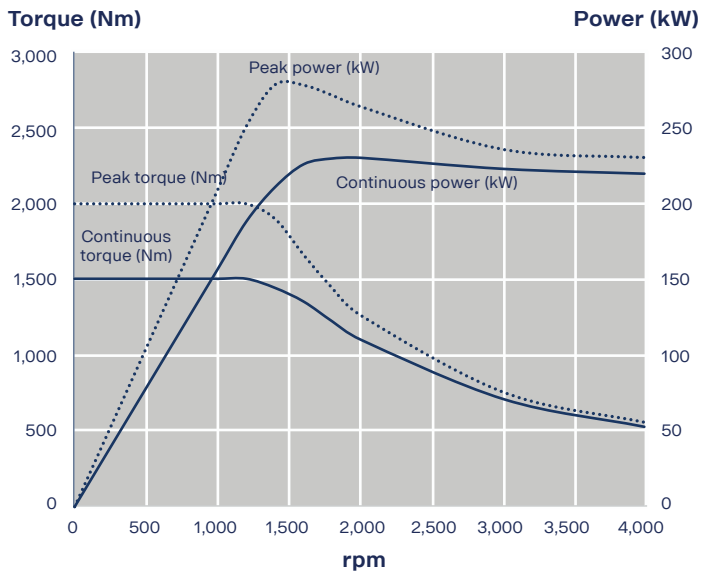
SCANIA ELECTRIFIED SOLUTION

- The palette for Power Solutions includes the main products ICE, E-machine and batteries, all controlled and managed through the Scania developed software.
- E-Machines, inverters, batteries, software etc are in-house developed with the same high requirements as any Scania product you find on the market today and will fulfil the quality, reliability and performance expected by our customers.
- All communication to the customer interface is just as simple as today, the PCU takes care of everything behind in order to make it easy for our customer. One interface, CAN J1939.
- The E-Machine has the same power if operated as motor or generator.
- Our electrified solutions with batteries can be charged by using the ICE or by a charging interface, plug-in.

SCANIA'S SOLUTIONS



SCANIA E-MACHINE



Technical Specifications

Max Powers	230 kW continuous 280 kW peak @ 1,500rpm
Max Torques	1,500 Nm continuous 2,000 Nm peak @ 0 – 1,300rpm
Speed range	0 – 4,000 rpm
System voltage	650 V (DC)
Cooling	Oil cooled
Interface to combustion engine and driveline	SAE 1 flange
Clutch	Integrated dog clutch to combustion engine
Weight incl inverter	250 kg
Dimensions (L x W x H)	490 x 610 x 590 mm

Customer benefit from Scania's solutions

- Several sizes of battery pack to facilitate wide range of packaging and energy requirements
- Tested product on Scania truck application
- Cycle life: 1000 MWh energy throughput to 80% SOH

ENERGY STORAGE SYSTEM

MP (MEGA PACK) BATTERIES



	MP20	½ MP20	MP10
Energy capacity	208 kWh	104 kWh	104 kWh
Configuration	20x18 modules (2x180 cells)	10x18 modules (180 cells)	12x15 modules (180 cells)
Weight	~1150kg	~620kg	~620kg
Size mm (LxWxH)	1598x775x639	1320x775x339	832x775x636
Energy Density	181Wh/kg	167Wh/kg	167Wh/kg

Technical Specifications

Energy	208kWh
Technology	Li-Ion NMC
Voltage (max.)	756 V
Voltage (min.)	576 V
Max. discharging power*	300 kW Pulse 375kW
Continuous charging power*	250kW Pulse 300kW
Energy density	303Wh /l, 181 Wh /kg
Thermal system	Scania in-house liquid cooling and heating for optimum cell temperature

* Depending on SOC and Temperature



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