

SINN Power

PowerTrain 5.0 – 20.0

FROM MOTION TO GRID AND VICE VERSA.

The SINN PowerTrain is a high-tech linear generator, with integrated power electronics, planetary gearbox, mechanical brake and IP 68 rating. It is the ideal machine for applications in harsh environments and enables series connection of multiple units.



LOW SPEED (LS):

- 1000 rpm
- Length: 215 mm – 645 mm (w/o shaft)
- Extension stages: 5 kW, 10 kW, 15 kW

HIGH SPEED (HS):

- 7000 rpm
- Length: 126 mm – 504 mm (w/o shaft)
- Extension stages: 5 kW, 10 kW, 15 kW, 20 kW

AREAS OF APPLICATIONS

- Drive, Power-Take off & Brake
- Lift & Pull
- Conveyor belt

COMPONENTS:

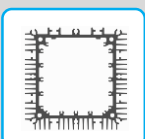
- AC Inverter
- MotorDrive
- Synchronous generator
- Bearings, brakes etc.

CHARACTERISTICS OF SP POWERTRAINS



Modular setup with full flexibility regarding individual solutions

- The productline allows for free choice of power size and also free combination of components such as AC Inverter, bearings and brakes

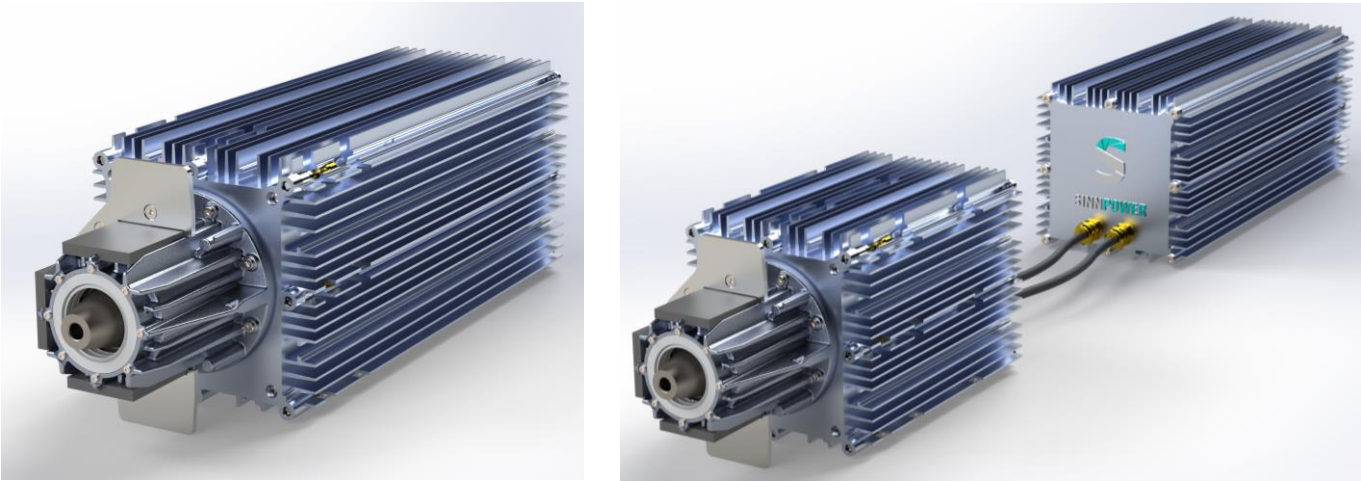


Made for rough environments

- IP 68 rating for toughest environments
- Connection per plug&play or cable

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Technical Specifications

E-MACHINE (MECHANICAL)	LS	HS
Rated Power	5 kW, 10 kW, 15 kW	5 kW, 10 kW, 15 kW, 20 kW
Gearbox Ratio	1:1 – 1:64	1:1 – 1:64
Maximum Output Speed (at shaft)	1000 rpm	7000 rpm
Maximum Torque (at shaft)	50 Nm	6.25 Nm
GRID (AC)		
Voltage	110 – 230 V AC (single phase), 400 V AC (three phases)	
Peak current	30 A, 60 A, 90 A	
Operating power	5 kW – 20 kW	
Electric frequency	50 Hz, 60 Hz (customizable upon request)	
MECHANICAL DATA		
Dimensions (WxHxD)	460 mm x 236 mm x 232 mm	
Weight	10 kg	
Enclosure	Aluminium housing with cooling fins	
IP rating	IP 68	
Cooling	Convection and optional water cooling	
Mounting	IM B3 (1001), threaded rod	
FEATURES		
Communication protocols	Customizable (e.g. Wireless, CAN, Modbus, Ethernet)	
Communication content	Speed, torque, power, voltage, current, temperature, diagnostics and alarming	
Grid behaviour	Grid forming and grid following	