SANY

ELECTRIC LONG ENDURANCE

ALL-ELECTRIC DRIVE SCHEME,
HV FAST CHARGING

ROAD MACHINERY

ELECTRIC ROAD ROLLER STR50E

Battery capacity
60 kWh

Centrifugal force of front drum
46/62 kN

Working width
1 380 mm

Operating weight
4 750 kg

LONG ENDURANCE AND LOW COST

60kWh Battery, 348V.

Electric Drive System: Vibration and travel functions utilize direct-drive electric motor technology.

Large-capacity battery + high-efficiency electric system, meeting the construction requirements of at least one shift.

Low maintenance cost of the battery, motor and electronic control systems. And only routine maintenance is required.

CONVENIENT CHARGING

Universal vehicle charging pile, with fast charging and slow charging systems.

Rapid charging achieves 80% SOC in 1h (CCS2 DC), while a 30-minute charge delivers 3h runtime.

Flexible charging solutions support on-site deployment wherever grid access is available.

HIGHLY RELIABL MOTOR AND ELE CONTROL COMP

The battery scheme that meets the work mechanical vibration requirements is adopted.

Liquid cooling thermal management system + battery self-heating, suitable for both hot and cold environments.

The bearing capacity of the motor and high anti-seismic design of 10g.

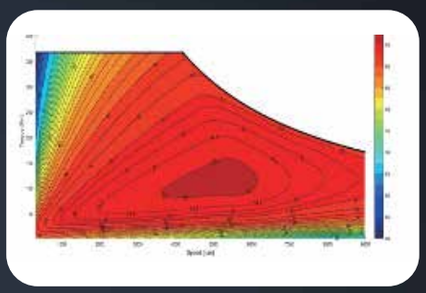
IP68 certified (IEC 60529) for high voltage system.

EFFICIENT AND ACCURATE

The maximum driving efficiency of the motor is 95%, and 90 in the working condition range. The system efficiency is improved and the heat loss is significantly reduced;

Regenerative braking system can be carried out like automobiles, and the energy feedback rate is up to 60%;

The electric drive and battery system can be heated as required, and the flow rate and fanspeed are adjusted in real time according to the temperature to reduce energy consumption.



BLE BATTERY, LECTRONIC PONENTS

gn of the structure can withstand an impact of more than

SANY INTELLIGENT CONTROL TECHNOLOGY

Independent control of front and rear wheels, upgraded flexible start/stop, better smoothness, ASR.

Vibration of front and rear drums is controlled independently, with continuous modulation of vibration frequency.

The electric drive and battery system dissipate heat as required, and the flow rate and fan speed are adjusted in real time according to temperature.

Optional intelligent compaction monitoring system.

TECHNICAL SPECIFICATIONS

PRODUCT OPTIONAL CONFIGURATION

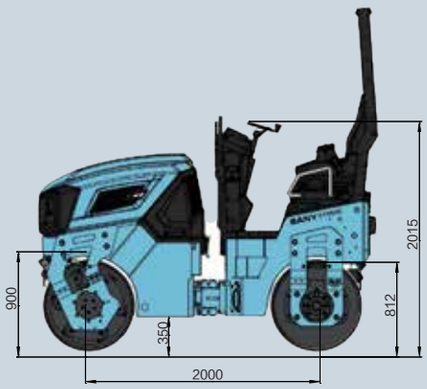
Item	Description of additional/optional configuration	Comment
Canopy	Configuration of control platform canopy	Optional
Intelligent compaction system	Used for online detection of compactness on construction site	Optional

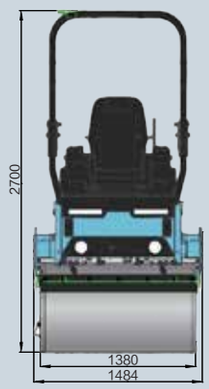
*: The above configurations need to be priced separately.

PRODUCT PARAMETERS

Overall dimensions

The following are standard configuration measurements; actual values may vary depending on optional components.





UNIT: MM

PRODUCT SPECIFICATIONS

Item	STR50E
Battery capacity (kWh)	60
Type of power battery	Lithium iron phosphate
Power of travel motor (kW)	20
Vibration motor power (kW)	7.3
Operating mass (kg)	4 750
Static linear load (N/cm)	160
Frequency (Hz)	50/58
Amplitude (mm)	0.5
Centrifugal force (kN)	46/62
Steel drum diameter/width (mm)	900/1 380
Max. gradeability without/with vibr. (%)	30/40
Direct Current Fast Charging (DCFC)	Available
AC Slow Charging	Available

*: ±10% voltage tolerance

PRODUCT HIGHLIGHTS

ELECTRIC ROAD ROLLER | STR50E

EFFICIENT AND RELIABLE

AC synchronous motor drive system for travelling and vibration, with energy consumption reduced by 20% and regenerative braking system during braking.

A globally leading supplier of high-quality batteries, motors, and electronic controls, known for their safety and reliability

CONVENIENCE

STR50E is equipped with both DC and AC Charging capabilities.
Fast Charge through the CCS2 Charge point at private or public charge stations or slower charge through the Type 2 connection to a regular Australian GPO

ECO-FRIENDLY AND ECONOMIC

Electric drive, zero pollution and emission, noise reduced by 20% during static rolling operation. More than 60% of the comprehensive operation cost (fuel and maintenance costs) can be saved. Meet the operation requirements of a typical working day.

SANY

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