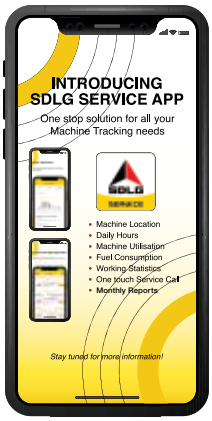
YourGrowthMachine

L956H EV

Electric Wheel Loader



Gross Power: 231kW / 310hp

Operating Weight: 19100 kg

Payload: 5500 kg

Member of the Volvo Group

Energy saving, high efficiency and reliable quality

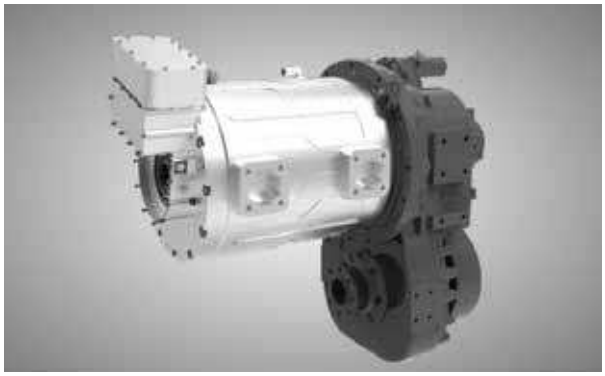
L956HEV, a 5.5T electric loader built by SDLG based on its mature platform and high-quality EIC resources in the industry through meticulous adjustment, enjoys reasonable performance matching and high operation comfort; zero emission, low noise and immunity to the low oxygen content environment in the plateau; the stability and reliability of traditional loaders and the fast response speed of electric loaders, as well as high production efficiency; its bucket takes a structure with super high strength, which is durable and easy to be fulfilled.

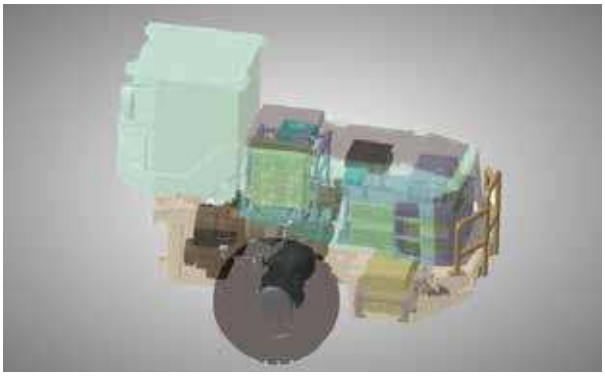
Mature Platform

- The platform is characterized by box-type frame, long-span articulation and medium/long wheelbase, allowing for reasonable load distribution and high stability; the articulation is adopted with the combination of joint bearing and tapered roller bearing as well as a new sealing design, enabling higher reliability and longer service life.
- The hydraulic cylinder of unified type and reinforced design is adopted. On the hydraulic cylinder, imported high-end seals and wide guide belts are adopted to prevent leakage and cylinder scuffling and improve the design life; the joints and pipeline connections are equipped with the 24” cone seal to eliminate leakage; the routing of hydraulic pipelines is optimised to reduce pipeline wear and interference, and improved reliability.
- The comprehensive application of lightweight and high-strength technologies optimizes working devices, with strength improved and weight reduced.
- The reinforced drive axle and reinforced drive shaft self-made by SDLG are adopted, the transmission parts are strengthened with new technology to optimize the transmission ratio, making the machine more suitable for heavy load conditions.
- The parking brake system consists of brand-new drum-type brake with high braking torque, and the brake shoe is built in the brake, reducing the influence by mud and water, and making braking safe and reliable; the service brake system is fully hydraulic with imported braking components, adopted and braking air source management system optimized, reducing damage by heat source, and making braking safe and reliable.
- The harnesses are designed with waterproof, dustproof and anti-looseness means, and the connectors are fixed nearby to improve reliability and safety; the headlamp holder is adopted with vibration damping measures to reduce the damage od machine to the headlamp.

Reliable Components

- **Battery:** The advanced lithium battery technology is adopted, which has large unit energy density and enjoys obvious advantage in capacity, safety, charge/discharge and battery life.
- **Motor:** A permanent magnet synchronous motor of variable frequency and variable speed type is adopted, which features high power, high reliability and long service life.
- **Electronic Control:** The electronic control platform is reasonably constructed with a high degree of autonomy and precise control, and allows for secondary setting and calibration according to customer needs.
- **Electric Drive Units (EDU):** The independently developed EDU is adopted, optimizing the power transmission route of the electric loader, and enabling good machine power performance, fast acceleration and quick response; in addition, the EDU features continuously variable speed change and automatic gear shifting, making the operation easy and comfortable.
- **Lighting System:** All lamps of the vehicle are of LED type
- **Cables:** Cables of well-known brands in the industry with good wear resistance, favourable wear resistance and long service life are used.





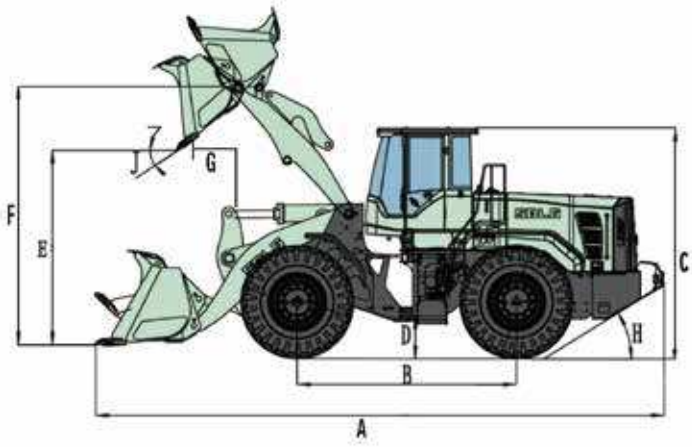
Smart & Comfortable

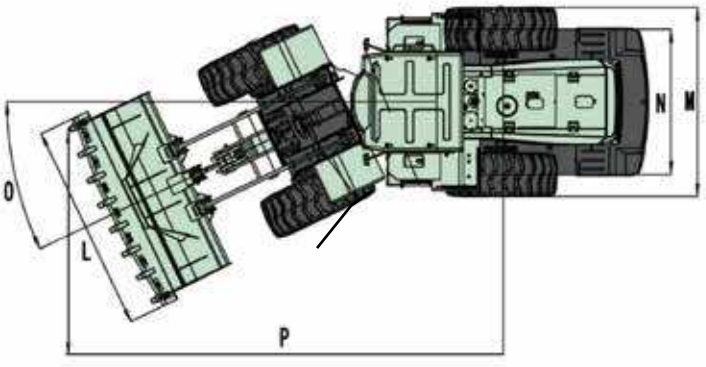
- An intelligent control system of deep learning is adopted, which can automatically adjust the power output according to load vehicle speed and other conditions of the machine, making the machine operations easy and comfortable, and enabling good power performance, small impact and high operating efficiency.
- SDLG thermal management system: A thermal management system is equipped for the battery, motor and ECU, enabling the machine to work normally under different ambient temperatures and load conditions; the thermal management system is highly intelligent, specifically, it can intelligently adjust the cooling power according to the amount of heat generated to ensure the safety and reliability of the system.
- The SDLG H generation cab of ergonomic design is adopted, which features reasonable button layout, large space and good vision; and is equipped with high-grade suspension seat adjustable from multiple angles and dimensions: adjustable steering column, beverage refrigerator compartment and HVAC, allowing for a good driving comfort.
- The machine is adopted with a 7-inch LCD, which transmits message via bus and can display a lot of information of the machine; it also features bus A/V and keypad virtual operation, ensuring high human-machine interaction.

Convenient maintenance

- The machine is designed with a large-opening hood with side door and tail door openable, making the inspection and maintenance of the motor battery, ECU, hydraulic system and other systems convenient.
- The lubricating points of the machine are led out, and an automatic centralized lubrication system can be installed as option, reducing the labour intensity of the driver and making daily maintenance easier.
- **General parts:** The CAST design concept is adopted and many assemblies are exchangeable with those of other models. The cylinders are unified in design and adopted with seals of high generality, facilitating the storage and maintenances of parts.
- **Central Control:** The electrical system is adopted with the centralized control mode, with the fuses and relays installed in a centralized control box, making maintenance and inspection convenient; the instrument panel can accurately read the DTCs and display the fault information on the LCD, making maintenance convenient; a standard data link connector is equipped for the testing and maintenance of electrical components.

L956H EV Main Parameters





Battery pack	
Battery type	LFP
Capacity	282 kWh
Rated voltage	618 V
Protection level	IP 67
Cooling type	Active cooling using refrigerant
Recommended charger	240 kW
Charging time	67 mins
Transmission System	
Make / Model	SDLG / TP240E
Type	Automatic planetary powershift
No. of gears	2 Forward and 1 Reverse
Machine speed FI, F2 (km/h)	0～15 / 0～40
Machine speed R1 (km/h)	0～15
Axles	
Make	SDLG make with Dry Disc brakes
Front & Rear	A500 Series heavy duty axles with 36 ton carrying capacity
Rear Axle Oscillation (^{0})	±13^0

Dimensions with 3.6 m^3 GP Bucket	
A. Overall length (mm)	9160
B. Wheelbase (mm)	3400
C. Overall height (mm)	3460
D. Minimum ground clearance (mm)	435
E. Dumping clearance (mm)	3380
F. Hinge pin at maximum lift \ height (mm)	4470
G. Corresponding dump reach (mm)	1280
H. Gradeability	30^0
J. Dumping angle (^{0})	-45°
L. Overall width (mm)	3024
M. Outside width of wheel (mm)	2895
N. Wheel tread(mm)	2190
O. Min. turning radius outside rear wheel (mm)	6360
P. Horizontal crossing radius outside bucket (mm)	7400

Drive Motors	
Type	Permanent magnet synchronous motor
Power - Rated / Peak	125 / 240 kW
Torque - Rated / peak	1200 / 2600 Nm
Cooling type	Passive liquid cooling

Hydraulic Motors	
Type	Permanent magnet synchronous motor
Power - Rated / Peak	106 / 180 kW
Torque - Rated / peak	500 / 1000 Nm
Cooling type	Passive liquid cooling

Hydraulic system	
Type	Double ball handle hydraulic electric pilot control
Main Pump	Gear Pump
Maximum flow (ltrs/min)	360
System working pressure (MPa)	21

Hydraulic cycle time	
Bucket lift time (full load) s	≤5.4
Bucket fall time (no load) s	≤2.9
Bucket dumping time (no load) s	≤1.3
Total cycle time s	≤9.6

Steering System	
Type	Load-sensing full hydraulic articulated steering
Working pressure of steering system (MPa)	16
Steering angle (°)	38°
Steering pump flow (lpm)	180

Brake system	
Service brake	Full hydraulic dry disc brakes with single brake pedal
Parking brake	Cable operated internal expanding shoe type
Brake pressure (MPa)	13.8

Tyres	
Tyre size	23.5 x 25 L3
Front Tyre pressure (MPa)	0.39±0.01
Rear tyre pressure (MPa)	0.33±0.01

Cabin	
Cabin Type	ROPS / FOPS Certified
AC	Standard with dual filters
Operator seat	Mechanical suspension seat
Music System	MP3 Player with USB, Aux and Bluetooth
Seat belt	Standard
Rotating beacon light	Standard
LED Working lights	Standard
HD Reverse Camera	Standard

Low voltage Electrical system	
System Voltage	24V
Batteries	2 x 12V

Performance	
Payload capacity (kg)	5500
Bucket volume, Heaped ISO/ SAE m3 (GP)	3.6
Operating weight (kg)	19100
Maximum breakout force (kN)	≥170
Maximum traction force (kN)	≥170
Static Tipping Load Straight (kg)	13400
Static Tipping Load Full Turn (kg)	11600

System Refill Capacity		Interval (hrs)
Hydraulic Oil tank filling capacity (L)	220	2000
Transmission oil filling capacity (L)	45 + 6	First 50 / Every 1000
Oil filling capacity of axles (main drive and wheel reducer (L)	30 +30	First 50 / Every 1000
Antifreeze coolant (L)	45	2000

Optional Attachments	
HD Rock Bucket (m^3)	2.7 / 3.0
LM Bucket (m^3)	5.1
Pallet fork	Available

SDLG machines are built to be like the people that own them: hardworking, genuine and reliable. Cost effective, robust machines with fuel efficient engines that are easy to operate and easy to maintain. And when you need parts or service, your **Reliability in Action.**

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