



XC938EV

CATL

Battery Pack

120 kW

Travel Motor Rated Power

3500 kg

Rated Load

1.8 m³ - 2.0 m³

Bucket Capacity



ELECTRIC LOADER

- The entire machine is equipped with a 181kW-h lithium iron phosphate battery, supporting dual-gun fast charging, with a minimum charging time of just 45 minutes (with a 240kW charging station). The battery thermal management system is intelligently controlled by BMS, ensuring safety and reliability. Its LCD monitor can provide real-time information on battery level, motor and controller temperatures, motor speed, battery temperature, air pressure, and other parameters. Be equipped with fully sealed connectors to improve the dust and water resistance, and configured with integrated enclosed fuse boxes to ensure easy and efficient inspection and maintenance.
- Single-pump split-flow fixed-displacement hydraulic system with fully pilot-controlled steering and working devices, which can ensure precise and simple operation. Its one-touch button for increasing hydraulic motor speed enhances the responsiveness of the hydraulic system and improves the operational efficiency. Flow amplifying steering system makes the steering more simple and flexible. The sealing method based on the international standard effectively resolves the leakage issues.
- XC938-EV electric loader can be equipped with a range of options, including 1.8-3.0 m³ bucket series, clamps, grasping grass machine, frog-shaped pliers, lifting devices, snow plows, and quick-change tools.



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Main Parameters	
Rated bucket capacity	1.8 - 2.0 m ³
Rated load	3500 kg
Travel motor	
Rated power	120 kW
Hydraulic motor	
Rated power	36 kW
Battery pack	
Total capacity	181 kW·h
Voltage level	521 V
Brand	CATL
Charging time	1 Hour
Slow charging	2 hour
Durability	
General condition	6-7 h
Heavy-duty condition	5-6 h
Main performance	
Operating weight	11650±200 kg
Tipping load (full-steering)	≤7500 kg
Dumping height	3120 mm
Dumping range	1070 mm

Wheel base	2900 mm
Wheel track	1850 mm
Max tractive force	95±5 kN
Max breakout force	105±5 kN
Turning radius (tire center)	5100 mm
Passing radius (outside the bucket)	6055 mm
Boom lifting time	≤5 s
Total cycle time	≤9 s
Max gradeability	28°
Steering angle	38±1°
Min ground clearance	≤365mm
Noise level	
At the driver's ear	≤70
Radiation noise	≤95
Travel speed	
Forward Gear I/II	17/35 km/h
Reverse Gear I/II	17/35 km/h
Dimensions	
Overall length	7600 mm
Overall height	3255 mm
Bucket width	2482 mm



POWER SYSTEM

Walking motor: Based on single-motor walking drive technology, the entire walking system is driven by a single motor connected to the drive axle through a transmission shaft, optimizing the power matching and enabling the machine to achieve greater torque output and faster response speed. The motor adjusts its speed in real-time based on throttle position, realizing the stepless speed change of the entire machine. Drive axle: DA1130/DA2130 dry-type drive axle independently developed by XCMG, which is featured by simple maintenance, proved durability in the market, long service life, strong engineering machinery transmission shaft, high impact resistance, and high power transmission reliability;



CAB AND STEERING SYSTEM

XCMG's innovative FPRS&ROPS micro-pressurized cab feature spacious, bright and enclosed space with fully-covered aesthetic interior. The silicone shock absorber is connected to the frame, which greatly reduces the vibration of the cab. The airbag shock-absorbing seat with composite control can improve the riding comfort; and the high-power air conditioner designed with heating and cooling modes supports intelligent temperature control to provide the operator with a suitable temperature all the time.



FRAME

The front and rear frames are designed for exceptional overload, with thickened, high-strength and high load-bearing steel plates. Reasonable layout, and simple structure reduce the occurrence of pressure and irregular weld seams, reinforce critical load-bearing areas, and can withstand torsional forces and impact loads in various operating conditions. All key structural components undergo finite element analysis to reduce stress concentration, eliminate local weaknesses, and ensure suitability for various adverse operating conditions. The distance between the upper and lower hinge pins at the hinge center has been increased to distribute forces at the hinge point, reducing the stress on the hinge pins and extending the bearing's service life. Front frame designed with excellent rigidity, providing a solid mounting base for the boom and oil cylinder, which can absorb high torsion, impact and loading operation force.



OPERATING UNIT AND BUCKET

Optimized operating tools designed with Z-type reverse six-linkage structure integrated with single rocker arm, short tie rod and horizontal boom cylinder, featuring superior operating performance and efficiency. Automatic bucket leveling at any position, eliminating the trouble of adjusting the bucket when carrying out the excavation cycle again, and simplifying the driver's operation.

The dust-proof lubrication structure is adopted for main pivot points to prevent grease from dust and contamination, and provide reliable protection for hinge pins and bushings. The main wear-prone parts of the bucket are made of wear-resistant plates, ensuring a long service life for the bucket.



BRAKE SYSTEM

The vehicle is equipped with fully-hydraulic wet service brake and caliper-disc parking brake, featuring low pressure alarm protection, and combining emergency brake and parking brake into one unit to ensure safe driving. High-performance brake components can improve the reliability of the brake system; and the multi-disc wet brake is designed with fully-enclosed structure, which can effectively prevent dirt from entering, reduce wear and minimize maintenance efforts. The service brake is integrated with the brake pedal stroke control technology, ensuring application of the braking force proportional to the stroke of the pedal, and also featuring the function of cutting off the transmission power.

THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THE PICTURES MAY INCLUDE OPTIONS. THE ACTUAL COLOR & APPEARANCE OF THE PRODUCT MAY DIFFER FROM WHAT IS SHOWN.

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