



SY35E

Battery capacity

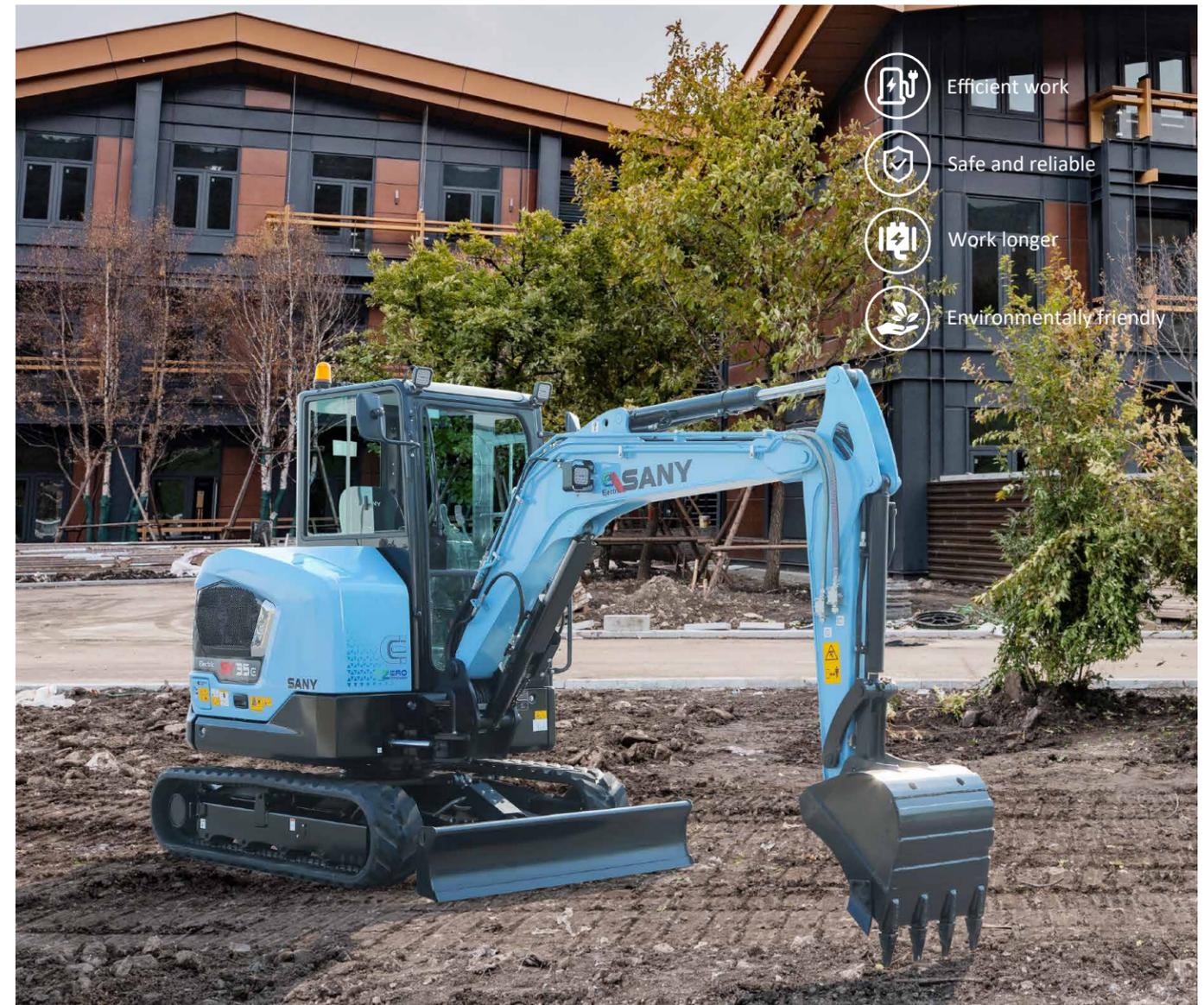
70.18 kW·h

Bucket capacity

0.12 m³

Operating weight

4300kg



Efficient work



Safe and reliable



Work longer



Environmentally friendly



SANY HEAVY MACHINERY LTD

<http://www.sanyglobal.com>

This manual was printed in 2025. The product information may have been changed when you read it. Products (including specific configuration, detail, etc.) are based on the specific models and products applicable to markets outside China which are displayed and sold by agents. For more details, please visit the local authorized agent of SANY Heavy Machinery Ltd.

Electric genie multi-faceted expert

The SY35E is the first 3-4T product of Sany electric excavator, embodying features of high efficiency, energy conservation, environmental protection via technologies, safety, reliability, and durability. Moreover, it offers diverse special configuration site options, catering to the varied requirements of different countries and customers.

Very long endurance

Equipped with the industry's largest capacity battery, charging for 1 hour, lasting 5-7 hours.

Convenient replenishment

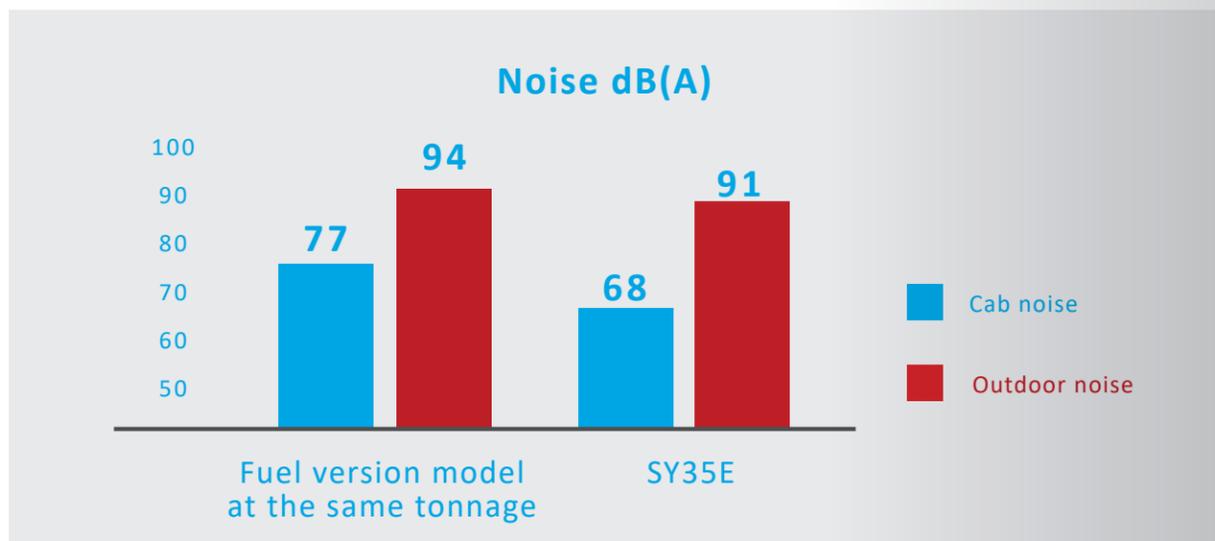
Can be charged with electricity: support industrial power and civil power charging, while common with car charging pile.

Safe and reliable

Short tail design, tail collision prevention, three electric safety.

Noise contrast

Quiet and comfortable:
Outside noise 91dBA, ear noise 68dBA





Comfortable driving

The seat depth of the new seat cushion is adjustable, and the mechanical lumbar support enhance overall seating comfort.

The new 7" touch screen, seamlessly integrating Bluetooth, air conditioning, and various other functions, represents a harmonious fusion of cutting-edge technologies and intelligent features.

Intelligence

New 7" display, real-time display of battery power and water temperature, integrated key operation panel, one-key start, fault self-diagnosis and other intelligent configurations.



Quiet and comfortable

Cab noise is reduced to 68 decibels, with the volume equivalent to the volume of the meeting speech, farewell to noise interference.



Seat upgrade

It features a 680mm high backrest seat that offers front and rear adjustments, featuring a foldable backrest for enhanced driving comfort. With a generous 300mm of reserved space, it provides ample room for operation, ensuring a more comfortable driving experience.



Complete research & development and test system

SANY has established a complete machine endurance test center with full functions. Each model of excavator must be subjected to over 2,000h field excavating test.

Key components like working device, cab and hydraulic components , etc. must be subject to fatigue test over 800,000 times.



Advanced manufacturing technology

SANY has an RGV assembling line and fullautomatic welding robots, and possesses high precision machining equipment and a precise machining center.

SANY's manufacturing and assembling lines won a five-star national site recognition in 2013 and national quality award in 2014. In 2023, SANY Mini Excavator Factory was awarded as the intelligent factory.



Advanced energy saving technology

Advanced SLSS hydraulic system:

Precise flow control according to load changes, excellent microoperation performance, like the human hand.

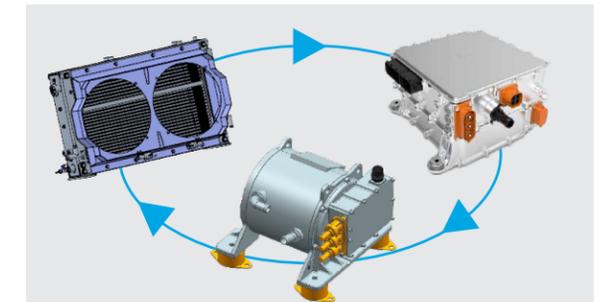
Full hydraulic control:

All actions adopt pilot hydraulic control, no air stroke, good microcontrol, safe and accurate, more smooth action, and lower fuel consumption.



Intelligent thermal management system

Equipped with multi-stage high-power electronic fan, hydraulic oil radiator - electronic coolant radiator series arrangement, independent temperature control - thermal management controller. The electric motor incorporates a series circulation liquid cooling system, ensuring efficient heat dissipation and reducing energy consumption by 30%.



Hydraulic excavator SY35E hydraulics

With a finely tuned hydraulic system, the SY35E provides a real-time match of flow to the demand and engine power available. You can be certain that the machine will operate at the peak of efficiency.

Hydraulic features

Excellent feathering-touch with work tools and fine grading through a load-sensitive hydraulic system. Precise control in lifting applications. Smooth use of power during digging. High gyration torque reduction provides high gyration speed and precise movements of the upper structure.



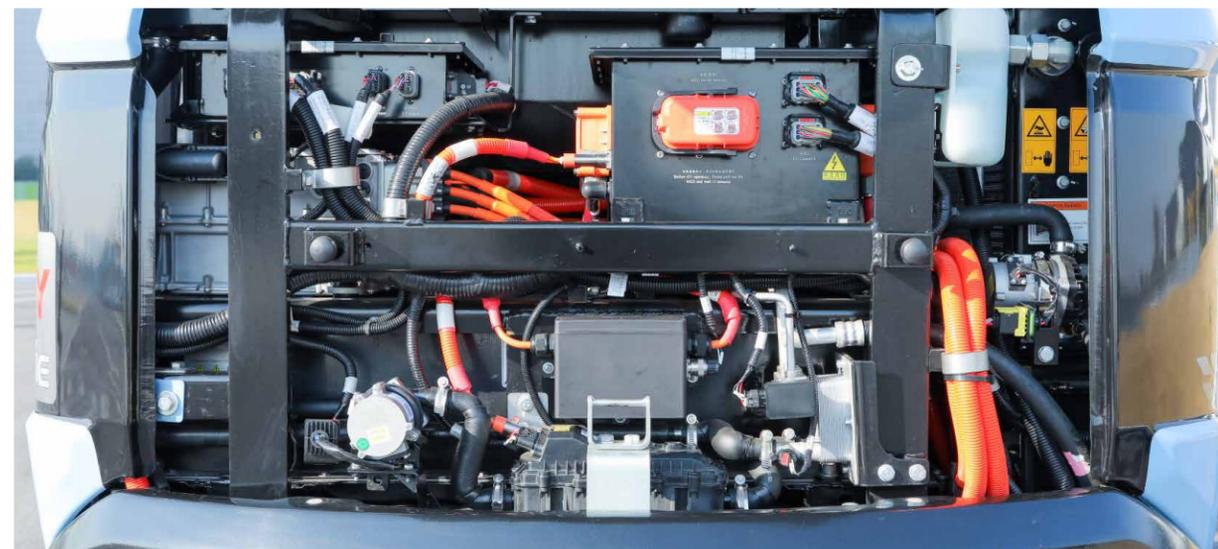
The high output variable displacement axial piston pump delivers a flow rate of 70L/min to provide the hydraulic horsepower necessary to get the work done.

Additional hydraulic function is the new standard

Responsive two-way auxiliary hydraulics are standard, providing full power for high productivity and precise control. Pre-plumbed with hard lines to the end of the bucket rod for ready-to-go, work tool connection.



Maintenance and service



Smart and convenient charging

Compatible with DC charging piles, industrial electricity, civil electricity and other charging modes, ensuring convenient and flexible charging.

Low maintenance cost

The battery, motor drive and electronic control system adopts international famous brand, with the maintenance only for the hydraulic system, reducing maintenance costs by 80%. Pure electric power, energy consumption is more than 50% lower than diesel engines.



Technical specification

Specification		Main performance	
Operating weight	4300 kg	Traveling speed (high and low)	4.2/2.4 (km/h)
Bucket capacity	0.12 m ³	Gyration speed	10 r/min
Electromotor	Permanent magnet synchronization	Grade ability	58 %/30°
Weight of motor	50 kg	Ground pressure	0.038 mPa
Rated power	18 kW/2200 rpm	Bucket digging force	26.51 kN
Peak power	27 kW	Digging force of bucket bar	19.96 kN
Nominal torque	80 N·m	The main pump delivery	40 cc/r
Power battery	lithium iron phosphate	Maximum system flow	88 L/min
Reference voltage	405.72 V	Main relief valve pressure	24 mpa
Standard capacity	173 A·h	Overload working pressure	28 mpa
Battery capacity	70.18 kW·h		

Hydraulic system			
Turning moment	6.9 kN·m	Ground specific pressure	387 kPa
Number of track plates (single side)	44	Walking traction	31.78 KN
Sprocket (single side)	1	Boom cylinder diameter × stroke	45×85×500 mm
Support wheel (single side)	4	Bucket rod cylinder diameter × stroke	45×75×588 mm
Boom	2.54 m	Bucket cylinder diameter × stroke	40×63×538 mm
Bucket rod	1.4 m	Dozer cylinder × stroke	45×85×160 mm
Liquid Tank	28 L		
Antifreeze solution	11 L		
Refrigerant	600 g		
Travelling reducer gear oil	0.7 L		

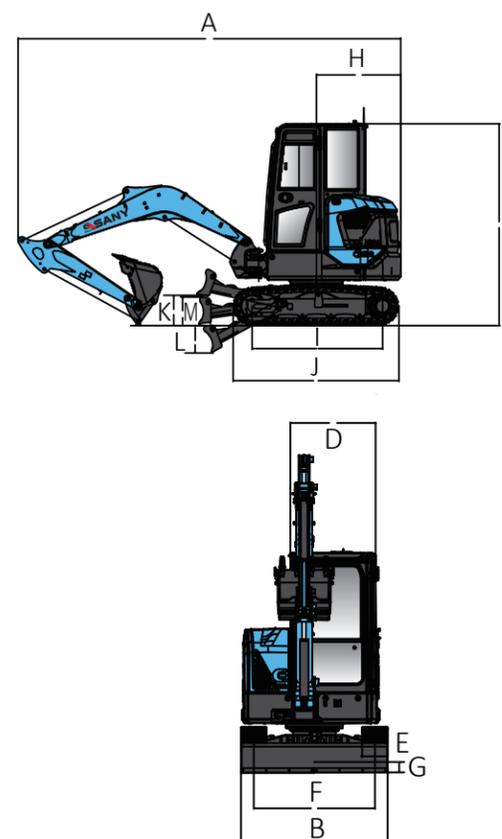
Lifting capacity table

Rated Lift Capacity Charts								
A/B	2.0m		3.0m		4.0m		Maximum	
4.0 m	kg						*719	656
3.0 m	kg			*671	502	*635	455	
2.0 m	kg		*870	762	*727	489	*612	384
1.0 m	kg		*1205	701	*844	466	*640	361
0.0 m	kg		*1382	667	*923	449	*726	372
-1.0 m	kg	*2311	1248	*1332	664	*865	499	*795
-2.0 m	kg	*1621	1292	*945	691		*791	623

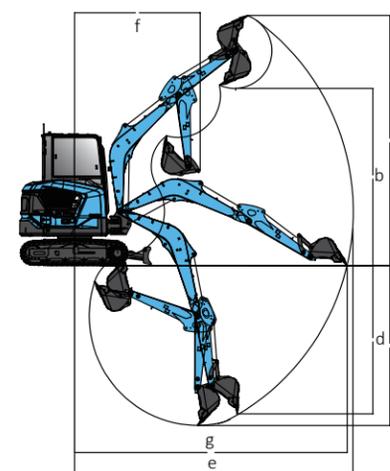
Rated Lift Capacity Charts								
A/B	2.0m		3.0m		4.0m		Maximum	
4.0 m	kg						710	656
3.0 m	kg				541	502	491	455
2.0 m	kg		828	762	528	489	415	384
1.0 m	kg		765	701	504	466	390	361
0.0 m	kg		727	667	487	449	402	372
-1.0 m	kg	1402	1248	727	664	487	499	465
-2.0 m	kg	1448	1292	755	691		679	623

1. This enhancement capability is calculated according to GB/T 13331, ISO 10567 and SAE J1097 standards;
 The limiting coefficient of hydraulic system is 0.87; The tipping limit coefficient is 0.75;
 2. marked with * is limited by hydraulic pressure, not marked with * is limited by stability;
 3. the lifting point is the support hole in front of the bucket rod (excluding the weight of the bucket),
 if there are additional accessories such as buckets, etc. need to be deducted from the above lifting weight;

Technical specification



Overall size(mm)	SY35E
A. Total length (during transportation)	4920
B. Total width	1720
C. Total height (during transportation)	2615
D. Width of cab	1000
E. Width of standard track shoe	300
F. Track gauge	1420
G. Min. ground clearance	295
H. Tail Swing Radius	1100
I. Grounding length of track	1670
J. Track length	2155
K. Maximum lifting height of blade	375
L. Maximum lowering depth of blade	370
M. Blade height	350



Scope of operation(mm)	SY35E
a. Maximum digging height	4865
b. Maximum unloading height	3445
c. Maximum digging depth	2640
d. Max. vertical digging depth	3115
e. Maximum digging radius	5480
f. Min. gyration radius	2475
g. Max. height at min. gyration radius	5400

Note: As the technology is constantly updated, materials and technical specifications are subject to change without prior notice, the machine in the photo may include additional equipment, and the * number in this manual is based on the actual vehicle configuration.

Standard configuration

Electric drive system	cab	Lower walking body
11 speed control mode	● Footrest, floor mat	● Walking motor guard plate
Radiator auxiliary tank	● Pilot control cut-out lever	● Track hydraulic tensioning mechanism
Fan air hood	● cab	● Bolted to the drive wheel
Automatic idle system	●	● Supporting wheel and sprocket
		● bulldozing

Alarm system	Monitoring system instrument	Hydraulic system
Intelligent machine diagnosis	● 7 "touch screen	● Control valve with main relief valve
Insulation alarm	● Fault diagnosis and alarm system	● Oil suction filter
Walking warning light	● Hour meter, power display	● Return filter
Seat belt alarm	○ Motor coolant temperature	
	● Power-on password	
	● Automatic idle system	
	● Charge status display	

Upper revolving platform	Air conditioning system	Front-end working device
Hydraulic oil level gauge	● Battery liquid cooling system	● Welded connecting rod
		● All welded box boom
		● All welded box bucket rod

● Stands for standard configurations ○ Stands for optional configurations

Bucket configuration	Bucket rod arrangement	Track arrangement
0.12m ³ standard bucket	○ 1.4m standard bucket rod	● 300mm rubber track
Crushing hammer	○ 1.65m standard bucket rod	○ 300mm steel track
Hydraulic quick change	○	

Cab configuration	Other special configuration	Other
12V auxiliary power supply 10A	● Hammer line	○ Portable DC charging station
	● LED working light	
	● Car charger	
	● Mains switch	
	● Auxiliary line 2	

● Stands for standard configurations ○ Stands for optional configurations