



856HE



BATTERY TYPE	LFP
RATED STORAGE ENERGY	423 kWh
OPERATING WEIGHT	20,611 kg
RATED LOAD CAPACITY	5,800 kg
STANDARD BUCKET SIZE	3.5 m ³
STANDARD BREAKOUT FORCE	162 kN
STANDARD DUMP CLEARANCE	2,977 mm



B A T T E R Y E L E C T R I C V E H I C L E

TOUGH WORLD. TOUGH EQUIPMENT.

POWER BATTERY

Battery Type	LFP
Rated Storage Energy	423 kWh
Nominal Voltage	618 V
System Voltage	DC24V
BMS Protection Level	IP67
Cooling Type	Intelligent temperature control, liquid cooling
Recommended Charger	240 kW
Charging Time (300kW Charging pile)	≤ 90 min

DRIVE MOTOR

Peak Power	160 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85°C
Cooling Type	Intelligent temperature control, liquid cooling
Altitude	≤ 5000 m

HYDRAULIC MOTOR

Peak Power	160 kW
Protection Level	IP67
Ambient Temperature	- 40 ~85°C
Cooling Type	Intelligent temperature control, liquid cooling
Altitude	≤ 5000 m

TRANSMISSION

Manufacturer	LiuGong
Number of Speeds, fwd / rev	2 / 1
Transmission Type	Planetary, power shift

AXLES

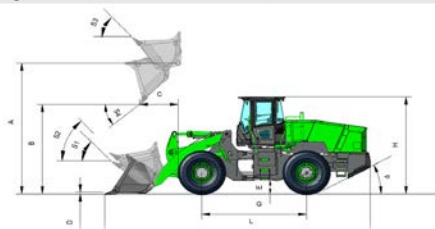
Type	LiuGong wet axle
Axle Oscillation	± 9.0°
Tire Size	23.5R25 L-3

WORKING HYDRAULICS

System	Variable dual pump confluent
Operation	Fingertip control
Work Pump	Gear pump
Work Pressure	25 MPa

STEERING HYDRAULICS

System	Flow amplifier
Steering Pump	Piston variable pump
Steering Relief Pressure	21 MPa

**BRAKES**

Service Brake Type	Full hydraulic
Service Brake Actuation	Hydraulic wet brake
Parking Brake Type	Drum
Parking Brake Actuation	Electro hydraulic control

LOADER ARM PERFORMANCE

Operating Weight	20,611 kg
Bucket Capacity	3.5 m³
Tipping Load - Straight	17,400 kg
Tipping Load - Full Turn	15,400 kg
Raise Time	5.2 s
Dump Time	1.5 s
Float Down Time	2.3 s
Fastest Total Cycle Time	9 s
Bucket Breakout Force	162 kN
A Maximum Hinge Pin Height	4,156 mm
B Dump Clearance at Full Height Discharge	2,977 mm
C Dump Reach at Full Height Discharge	1,231 mm
D Maximum Digging Depth, Bucket Level	50.2 mm
S ₁ Bucket Rollback at Ground Level	44.3°
S ₂ Bucket Rollback at Carry	49°
S ₃ Bucket Rollback at Maximum Height	56°
S ₄ Maximum Dump Angle at Full Height	45°

DIMENSIONS

E Ground Clearance	431 mm
G Wheelbase	3,525 mm
H Cab Height	3,500 mm
J Wheel Tread	2,280 mm
K Width Over Tires	2,880 mm
L Length with Bucket Down	8,615 mm
M Turn Angle, Either Side	38°
P Rear Angle of Departure	28°
R ₂ Turning Radius, Bucket Carry	7,209 mm
R ₂ Turning Radius, Outside of Tire	6,625 mm
W Width Over Bucket	2,970 mm

SERVICE CAPACITIES

Anti-freeze	45 L
Hydraulic Reservoir	230 L
Axle, Front / Rear	35 / 35 L
Transmission	30 L

