

 **LIUGONG**

856HE



BATTERY TYPE	LFP
RATED STORAGE ENERGY	423 kWh
OPERATING WEIGHT	22,280 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	DC24 V
BMS Protection Level	IP67
Cooling Type	Intelligent temperature control, liquid cooling
Recommended Charger	120 ~ 300 kW
Charging Time (300kW Charging pile)	≥ 120 min
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	≤ 5,000 m

HYDRAULIC MOTOR

Peak Power	160 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85°C
Cooling Type	Intelligent temperature control, liquid cooling
Altitude	≤ 5,000 m

TRANSMISSION

Manufacturer	LiuGong
Number of Speeds, fwd / rev	2 / 1
Maximum Travel Speed, fwd	40 km/h
Maximum Travel Speed, rev	13 km/h
Transmission Type	Planetary electronic control shift

AXLES

Type	LiuGong wet axle
Axle Oscillation	± 9.5°
Tire Size	23.5-25 PR20

WORKING HYDRAULICS

System	Variable two pumps confluent
Operation	Single electric-control joystick
Work Pump	Variable displacement piston pump
Work Pressure	26 MPa

STEERING HYDRAULICS

System	Flow amplifying
Steering Pump	Variable displacement piston pump
Steering Relief Pressure	21 MPa

BRAKES

Service Brake Type	Full hydraulic braking
Service Brake Actuation	Hydraulic wet brake
Parking Brake Type	Drum
Parking Brake Actuation	Hydraulic brake cylinder

LOADER ARM PERFORMANCE

Operating Weight	22,280 kg
Bucket Capacity	3.5 m³
Tipping Load - Straight	17,800 kg
Tipping Load - Full Turn	15,600 kg
Raise Time	5.2 s
Dump Time	1.5 s
Float Down Time	2.3 s
Fastest Total Cycle Time	9.0 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	1,230 mm
D Maximum Digging Depth, Bucket Level	50 mm
S ₁ Bucket Rollback at Ground Level	45°
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	8,665 mm
M Turn Angle, Either Side	38°
P Rear Angle of Departure	28°
R ₁ Turning Radius, Bucket Carry	7,214 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	50 / 48 L
Transmission	23 L

