



820TE

BATTERY TYPE	LFP
RATED STORAGE ENERGY	70.5 kWh
OPERATING WEIGHT	6,600 kg
RATED LOAD CAPACITY	2,000 kg
STANDARD BUCKET SIZE	1.2 m ³
STANDARD BREAKOUT FORCE	61 kN
STANDARD DUMP CLEARANCE	2,618 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	70.5 kWh
Nominal Voltage	309 V
System Voltage	DC24 V
BMS Protection Level	IP67
Cooling Type	Intelligent temperature control liquid cooling
Recommended Charger	40 ~ 60 kW
Charging Time (60kW Charging pile)	≤ 70 min

DRIVE MOTOR

Peak Power	50 kW
Protection Level	IP67
Ambient Temperature	- 40 ~ 85°C
Cooling Type	Intelligent temperature control liquid cooling
Altitude	≤ 5,000 m

HYDRAULIC MOTOR

Peak Power	60 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	1 / 1
Maximum Travel Speed, fwd	19 km/h
Maximum Travel Speed, rev	19 km/h
Transmission Type	Countershaft, power shift

AXLES

Type	LiuGong wet axle
Axle Oscillation	± 8°
Tire Size	405/70R20 - LR400

WORKING HYDRAULICS

System	Variable single pump
Operation	Electric-control joystick
Work Pump	Variable displacement piston pump (single-pump system)
Work Pressure	23.5 MPa

STEERING HYDRAULICS

System	Large displacement steering gear
Steering Pump	Variable displacement piston pump (single-pump system)
Steering Relief Pressure	18 MPa

BRAKES

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

LOADER ARM PERFORMANCE

Operating Weight	6,600 kg
Bucket Capacity	1.2 m³
Tipping Load - Straight	4,700 kg
Tipping Load - Full Turn	3,650 kg
Raise Time	4.7 s
Dump Time	1.1 s
Float Down Time	4.0 s
Fastest Total Cycle Time	9.8 s
Bucket Breakout Force	61 kN
A Maximum Hinge Pin Height	3,459 mm
B Dump Clearance at Full Height Discharge	2,618 mm
C Dump Reach at Full Height Discharge	850 mm
D Maximum Digging Depth, Bucket Level	95 mm
S ₁ Bucket Rollback at Ground Level	45°
S ₂ Bucket Rollback at Carry	50°
S ₃ Bucket Rollback at Maximum Height	60°
S ₄ Maximum Dump Angle at Full Height	45°

DIMENSIONS

E Ground Clearance	350 mm
G Wheelbase	2,150 mm
H Cab Height	2,515 mm
J Wheel Tread	1,520 mm
K Width over Tires	1,930 mm
L Length with Bucket Down	5,833 mm
M Turn Angle, Either Side	40°
P Rear Angle of Departure	30°
R ₁ Turning Radius, Bucket Carry	4,486 mm
R ₂ Turning Radius, Outside of Tire	3,953 mm
W Width over Bucket	2,060 mm

SERVICE CAPACITIES

Anti-freeze	10 L
Hydraulic Reservoir	54 L
Axle, Front / Rear	13 / 13 L
Transmission	1.5 L

