LIUGONG 820TE

SPECIFICATIONS

POWER BATTERY	
Battery Type	LFP
Rated Storage Energy	70.5 kWh
Nominal Voltage	309.12V
System Voltage	DC24V
BMS Protection Level	IP68
Cooling Type	Water
Recommended Charger	≤60 kW
Charging Time (60kW Charging pile)	≤70 min

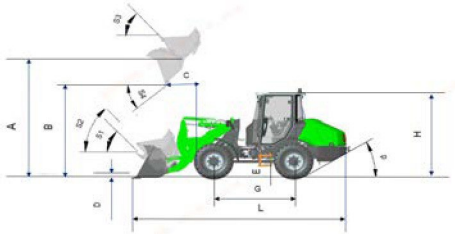
DRIVE MOTOR	
Peak Power	50 kW
Protection Level	IP68
Ambient Temperature	-40~85℃
Cooling Type	Water
Altitude	≤5000 m

HYDRAULIC MOTOR	
Peak Power	60 kW
Protection Level	IP67
Ambient Temperature	-40~85℃
Cooling Type	Water
Altitude	≤5000 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 powershift

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

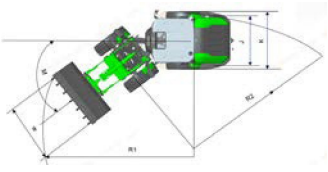
WORKING HYDRAULICS	
System	Variable single pump
Operation	Electric-control joystick
Work Pump	Piston variable pump (signle-pump system)
Work Pressure	23.5 MPa



STEERING HYDRAULICS	
System	Large displacement steering
Steering Pump	Piston variable pump (signle-pump system)
Steering Relief Pressure	18 MPa

BRAKES	
Service Brake Type	Full hydraulic
Service Brake Actuation	Hydraulic wet brake
Parking Brake Type	Disc
Parking Brake Actuation	Hydraulic disc brake

LOADER ARM PERFORMANCE	
Operating Weight	6,400 kg
Bucket Capacity	1.2 m³
Tipping Load - Straight	4,700 kg
Tipping Load - Full Turn	3,600 kg
Raise Time	5.1 s
Dump Time	1.0 s
Float Down Time	3.1 s
Fastest Total Cycle Time	9.2 s
Bucket Breakout Force	62 kN
A Maximum Hinge Pin Height	3,459 mm
B Dump Clearance at Full Height Discharge	2,670 mm
C Dump Reach at Full Height Discharge	750 mm
D Maximum Digging Depth, Bucket Level	95 mm
S_1 Bucket Rollback at Ground Level	45°
S_2 Bucket Rollback at Carry	49.5°
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	2,500 mm
J Wheel Tread	1,520 mm
K Width over Tires	1,925 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 L
Transmission	1.5 L