

# LIUGONG

# DR50CE

<b>MAX. GROSS MACHINE WEIGHT</b>	<b>88,500 kg</b>
<b>NET MACHINE WEIGHT</b>	<b>38,500 kg</b>
<b>PAYLOAD</b>	<b>50,000 kg</b>
<b>MOTOR TYPE</b>	<b>HL001</b>
<b>RATED POWER</b>	<b>500 kW (671 hp / 680 ps) @ 1,050 rpm</b>
<b>STRUCK CAPACITY</b>	<b>27 m<sup>3</sup></b>
<b>Heaped Capacity (SAE 2:1)</b>	<b>35 m<sup>3</sup></b>



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.

# DR50CE SPECIFICATIONS >>>

## DRIVE MOTOR

Motor Type	Permanent magnet synchronous motor
Rated / Peak Power	500 kW (671 hp / 680 ps) / 1,200 kW (1,609 hp/1,632 ps)
Rated / Peak Speed	1,050/3,000 rpm
Cooling Mode	Water

## OIL PUMP MOTOR

Rated / Peak Power	60 kW (80 hp / 82 ps) / 110 kW (148 hp/150 ps) @ 60 s
Rated / Peak Torque	275 kW (369 hp / 374 ps) / 500 kW (671 hp / 680 ps) @ 60 s
Cooling Mode	Water

## WEIGHT DISTRIBUTION

Empty Load	Front axle: 49% Rear axle: 51%
Full Load	Front axle: 36% Rear axle: 64%
Working Environment Temperature	-40~55°C
Relative Humidity of working Environment	0-100%
Continuous Climbing Capacity (8% Gradient, 2% Rolling Resistance)	Load: > 17 km/h Unload: > 36 km/h
Max. Gradeability	≥33%

## POWER BATTERY

Battery Type	Lithium iron phosphate
Battery Capacity	423 kWh
Voltage Platform	618 V
Cooling Mode	Water
Heating Mode	Membrane + Water

## BRAKING

Braking Type	Service brake / Parking / Emergency / Electric braking
Service Brake Type	Front dry and rear wet
Braking Distance	<12.3m
Service Braking Capacity (Full Load)	25%
Parking Braking Capacity (Full Load)	15%
Park Braking Gradeability (Load)	> 15%



## TIRE AND RIM

Tire Size	21.00-35/E4
Rim	15.00/3.0-35

## CHARGE

Charge Mode	Double DC
Charging Current	500 A
Charging Power	360 kW (483 hp / 489 ps)
Charging Time (SOC20%)	60 min

## STEERING

Steering System	Full hydraulic dynamic load sensing
Turning Radius	<9,228 mm
Max. Steering Angle	38°

## DRIVE AXLE

Mode	Heavy duty, fully floating axle shaft
Suspension	Nitrogen gas / Oil suspension
Total Reduction Ratio	19.8

## DIMENSIONS

Overall Length	8,896 mm
Overall Width	5,341 mm
Overall Height	4,271 mm
Loading Height	3,902 mm

## HOIST SYSTEM

Hoist Mode	External double cylinder frame
Raise Time	<15s
Lower Time	<12 s

