

Terminalift Heavy Duty Forklift

(Fully Electric)

TL-FL33E

Innovations

1. Independently developed special load positive flow control system with variable speed, global power matching, on-demand oil supply, reducing throttling and overflow loss.

2. The travelling system adopts independently developed motor -pump/ motor - reducer, compound control of speed and torque, active prediction of load torque and direct control of torque, with strong power and low energy consumption.

3. The lifting system adopts motor pump/ hydraulic motor generator. The compound control of speed and torque. Realizing negative load regenerative power generation efficiently. Increasing the endurance time.

4. Multi-motor coordinated control, reasonable matching of motor load, optimized energy management, efficient operation; time-sharing, automatic idle stop, reducing energy consumption of the motor and pump at idle.

5. 540V high voltage solution, reducing electric current; high efficiency permanent magnet synchronous motor, intelligent door drive variable speed control, low heat generation, 20% energy saved than asynchronous motor.

6. Renewable power generation for various negative loads, energy recovery based on power lithium batteries, improving energy efficiency of the whole machine.



Features

- Zero emission, zero pollution, low noise.

- Low use cost. The electricity consumption cost of pure electric construction machinery is about 30% of the fuel cost of traditional construction machinery.

- Low maintenance cost. No need for regular maintenance for the diesel engine, such as replacing the engine oil and three filters, etc.

- High battery safety, no risk of spontaneous combustion / deflagration

- The lifespan of the battery is more than 8-year. The recycle lifespan of lithium iron phosphate battery under 1C is more than 4000 times.

- Optimized energy management, excellent energy utilization efficiency and endurance, together with high-volume lithium iron phosphate battery, 7 to 9 working hours after full-charging can be guaranteed with large capacity lithium battery.

TERMINALIFT

Performance parameter

	Performance	Parameter
Basic parameters	Model	??????
	Dynamic form	Lithium battery pure electric
	Seat mode	Driver type
	Rated lifting capacity	25,000kg
	Load center	1,250mm
Weight	Wheelbase	4,400mm
	Operating mass	35,000kg
Wheel / Chassis	Tire	Pneumatic
	Front tire & Rear tire	14.00-24-28PR
	Number of wheels front/rear (x=drive wheel)	4x/2
	Front track/ Rear track	2200mm / 2390mm
Basic dimensions	Standard front/rear mast tilting angle	6°/ 12°
	Mast height when fork lowered	3,860mm
	Standard lifting height	3,500mm
	Maximum height when fork raised	5,610mm
	Cab height	3,510mm
	Overall Length (including standard forks)	9,190mm
	Length without forks	6,745mm
	Overall width	3,050mm
	Fork size	2,440×300×110mm
	Fork carriage width	3,050mm
	Fork opening Range	560-2,380mm
	Ground clearance in mast	300mm
	Ground clearance in center of wheelbase	420mm
Performance	Turning radius (outside)	6,700mm
	Driving speed (load / no load)	28 km/h
	Maximum lifting speed (load / no load)	290/300mm/s
	Maximum lowering speed (load/ no load)	315/260mm/s
	Traction	170kN
	Gradeability	20%
	Service brake	Dry caliper /wet multi-piece (optional)
Battery parameter	Parking brake	Clamp disc spring brake
	Type of battery	Lithium iron phosphate
	Battery rated storage energy	218kwh
	Voltage	404AH
	Full charge and discharge cycles	541V - More than 4000 times
	Theoretical service life	>8years
	Charging time	1.5-2h (depending on the charging pile)
Drive System	Power consumption	25kWh/ hour
	Motor type	Permanent magnet synchronous motor
	Motor rated power	90kW
Hydraulic system	Transmission type	Mechanical transmission, automatic shifting
	Motor type	Permanent magnet synchronous motor
	Motor rated power	Distributed multi-motor 45kW-45kW-30kW
Steering system	Pressure	25 MPa
	Steering type	Full hydraulic steering
	Pressure	14 MPa
	Steering mode	Horizontal cylinder steering



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