

Innovation Through Simplicity

EP EQUIPMENT CO.,LTD

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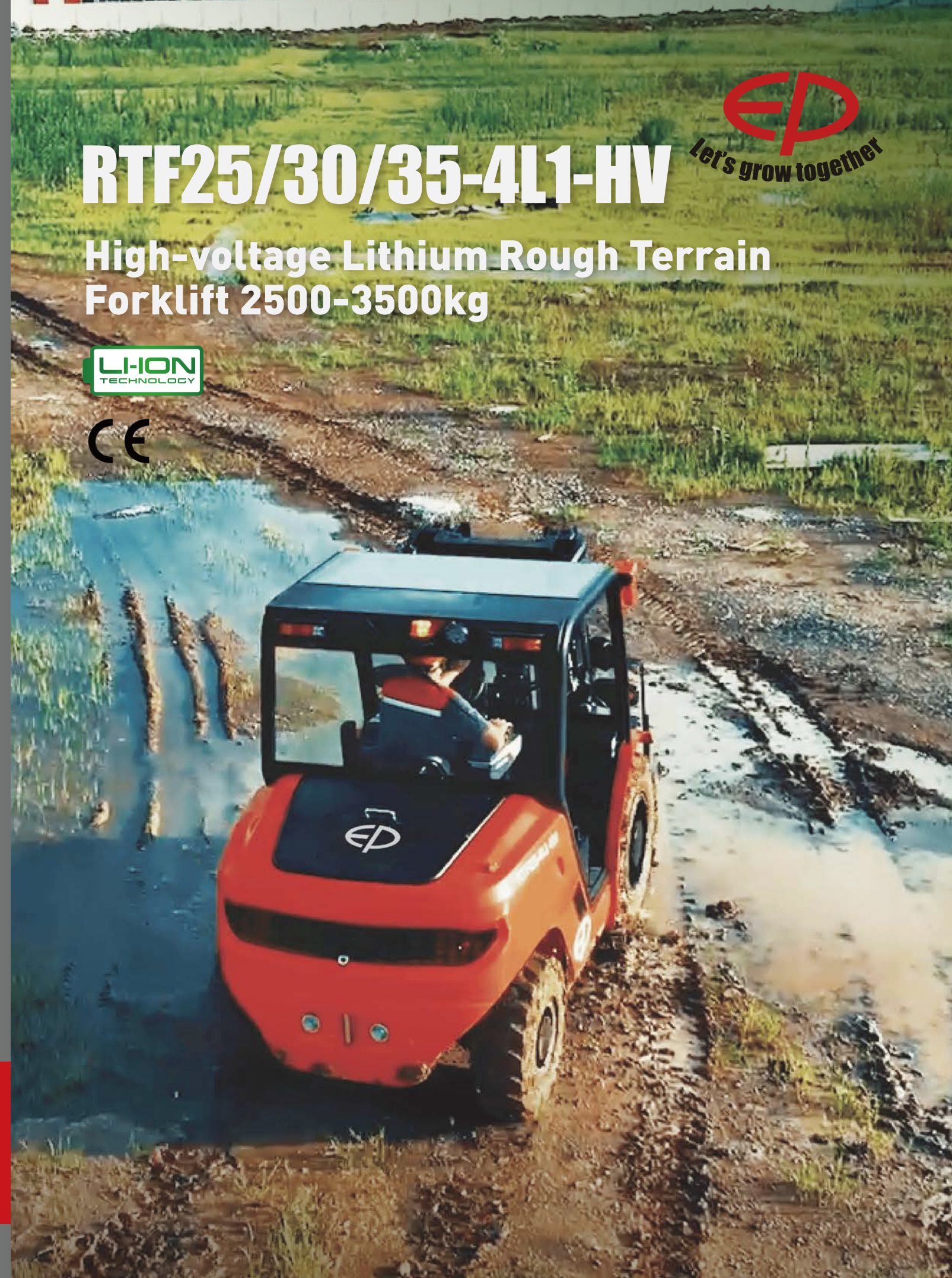
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RTF25/30/35-4L1-HV

High-voltage Lithium Rough Terrain
Forklift 2500-3500kg



HIGH PERFORMANCE: HIGH SPEED AND HIGH GRADEABILITY

The 309V high-voltage Li-ion battery enable more power delivery to motors, improving acceleration and travel speeds for the rough terrain forklift. The adoption of high voltage can provide stable and strong power output, which further gives it excellent speeds and climbing capabilities ensuring that the forklift can cope with various applications with ease.

This high-voltage workhorse offers a 30%-50% performance improvement over the low-voltage and I/C models.

20 km/h

Max. Travel Speed

50 %

Max. Gradeability

309V 150Ah

High Voltage Lithium Battery

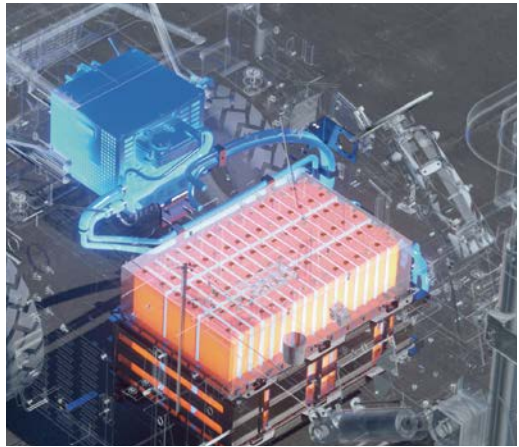
30%-50%

Performance Improvement



SUSTAINABILITY : ZERO EMISSIONS FOR CLEANER ENVIRONMENT

As fully electric trucks powered by lithium-ion batteries, the RTF25/30/35-4L1-HV produce zero emissions during operation, eliminating exposure to toxic fumes like carbon monoxide and nitrogen oxides. It contributes to a cleaner working environment without compromising handling capabilities.

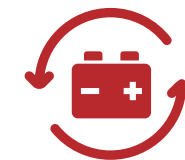




EXTENDED RUNTIME THANKS TO 1C FAST CHARGING AND FLEXIBLE ENERGY MANAGEMENT

The RTF25/30/35-4L1-HV is powered by a 309V150Ah lithium battery pack, which has high energy density and can store 46.35 kWh electrical energy within the compact volume.

High-voltage systems consume less energy and provide longer battery running time comparing low-voltage systems. Notably, these high-voltage Li-ion batteries boast an impressive cycle life of up to 4000 cycles, ensuring long-term durability and minimizing the need for battery replacements. Furthermore, lithium batteries present considerably lower charging costs than fuel expenses, significantly reducing long-term energy consumption costs.



4000

cycles for high-voltage Li-ion batteries

Equipped with fast charging capabilities, the high-voltage rough terrain forklift offers a remarkable charging experience. It comes with a built-in charger and an external charging port on one truck, allowing operators to charge directly from the grid or connect to an optional energy storage cabinet. This ensures continuous operation and convenient energy management, even on remote construction sites where grid access is limited.



 **1C**
Charging

 **1 hour**
Fully charged

 **15%**
Energy savings

The RTF25/30/35-4L1-HV can also compatible with EP energy storage cabinet, suitable for off-grid applications.

Experience rapid recharging: just 1 hour per full charge, with enough capacity for 2 complete cycles from a single cabinet.

CONQUER ANY TERRAIN AND WORKING CONDITIONS

Confident performance on rough and uneven terrain

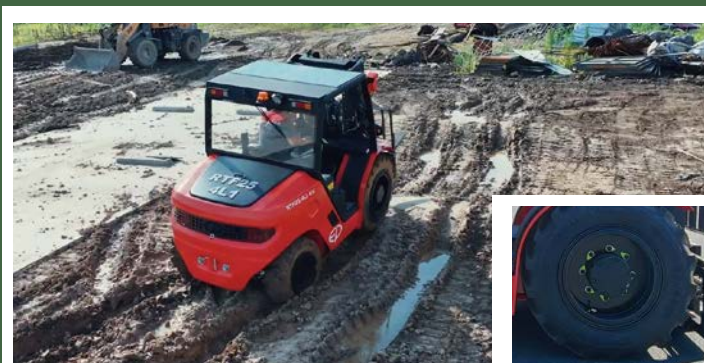
Equipped with optimized differential configurations for different load capacities, the truck provides enhanced traction and allows for one-touch switching between 2WD and 4WD modes.

- 2WD mode: Optimized for energy efficiency and extended runtime, ideal for smooth or unpaved roads.
- 4WD mode: Delivers enhanced traction and driving capability to tackle challenging conditions such as steep slopes, muddy or sandy terrain.

Differential Configurations

The RTF25 is equipped with an automatic limited-slip differential on the front axle, which limits the speed difference between the two drive wheels and helps maintain traction when wheel grip varies.

The RTF30 and RTF35 feature a differential lock on the front axle and a limited-slip differential on the rear axle. When activated, the differential lock helps maintain driving force on both front wheels in challenging low-traction conditions, supporting the truck in overcoming difficult terrain.



Combined with 289mm of ground clearance and off-road tires, the truck delivers excellent off-road capability and traction on mud, sand, steep slopes and uneven ground, enabling reliable operation in demanding



COMPACT STRUCTURE FOR BOTH OUTDOOR AND INDOOR APPLICATIONS

With its low overall height and agile overall width, the RTF25/30/35-4L1-HV is compact enough to enter underground garages, low-clearance warehouses, and confined passages. This allows operators to use it across different sites, from wide open outdoor areas to restricted indoor spaces.



RTF25/30/35-4L1

Experience uninterrupted productivity through rain, puddles, and damp conditions with the overall IPX4 rating. Plus an exceptional IP67 rating for high-voltage components. Engineered to withstand harsh temperature, the RTF25/30/35-4L1-HV offer an ambient temperature range of -25° to 40° allowing them to perform no matter climate.

Battery heating when charging comes as a standard function, which is activated when the surrounding temperature is below zero to always offer an optimal temperature range for efficient and safe charging even in cold weather conditions.



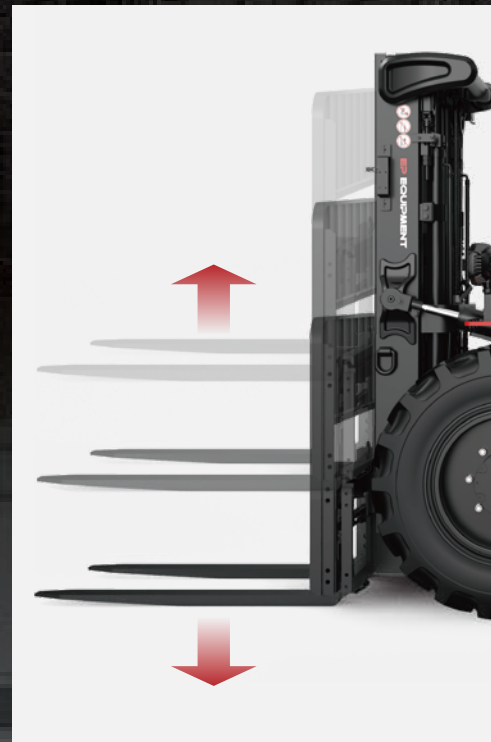
SAFETY ASSURED: BATTERY, MAST BUFFERING AND DRIVE CONTROL

High-voltage lithium batteries employ multiple protective measures to ensure safe operations including overcharge protection, over-temperature monitoring, short-circuit protection, etc. minimizing the risk of potential hazards and maximizing operational safety.

The central controlling module - VCU (Vehicle Control Unit) extends the safety of the high-voltage rough terrain forklifts. VCU provides precise control and real-time monitoring of critical parameters to ensure the truck operates within safe limits.

The mast is equipped with a hydraulic buffering system that ensures smooth lifting and lowering of loads. With controlled deceleration, the fork movement is smooth with no abrupt stops that could damage the load or cause operator discomfort. This feature enhances operational safety and prolongs the lifespan of the mast components.

Driving safety is also reinforced through speed reduction when mast is elevated, and turn speed control, ensuring both productivity and secure handling.



SMART AND RELIABLE STRATEGY FOR THERMAL MANAGEMENT

The high-voltage rough terrain forklift truck adopts optimized thermal management design for the motor, controller, power supply, and high-voltage battery, ensuring stable performance and reliable operation under demanding working conditions.

The optimized thermal management design delivers efficient heat dissipation to prevent overheating during continuous heavy-duty operation or in high ambient temperatures. With specially designed ventilation channels and enlarged cooling airflow paths, the system effectively protects key components from excessive heat buildup, reducing the risk of performance degradation or unexpected downtime. This contributes to enhanced reliability, durability, and longer service life of the truck.

By maintaining the battery within its optimal temperature range, the system helps ensure consistent performance, stable power output, and extended battery lifespan while preventing overheating during intensive applications.



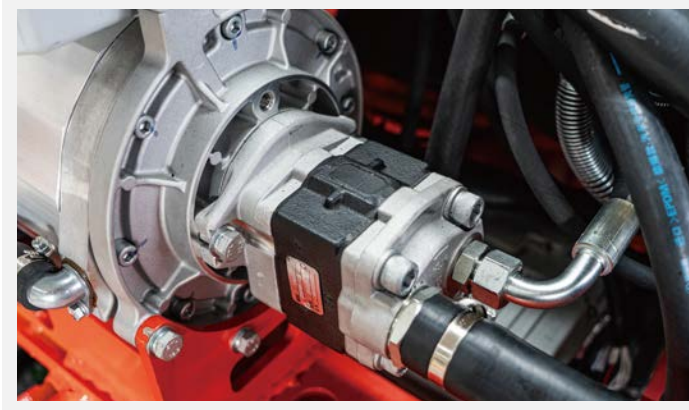
▣ Operator comfort and ease of use

Responsive and durable LED lighting system



- Front combination working light: High and low beam + turn signal + clearance light
- Rear combination light: Reversing light + brake light + turn signal + clearance light

Low-noise hydraulic pump



Wide-view Mast



Spacious suspension cabin and suspension seat



Reduce vibrations and fatigue effectively
Two cabin height options available

Storage compartment and USB charging port



Integrated with the armrest



Multifunctional smart display



- Instantly displays all essential information including: Remaining battery charge, travel speed, truck inclination, steering wheel angle and diagnostic codes.
- With one-touch ESP mode selection for optimized control

Fingertips control with full proportional solenoid valve



- Ergonomic armrest design with natural arm positioning reduces fatigue during prolonged operation
- All critical controls at your fingertips as standard: from hydraulic controls to travel direction

Semi-cabin: Engineered for Outdoor Applications



- All-weather capability provides maximum comfort and safety in exposed working environments.
- 360°protection: Overhead guard roof + Front and rear windshields + Sunshades

Optional mast accumulator



- Effectively cushions shocks during mast lifting, preventing cargo vibration and damage
- Ensures smoother, more precise operation and enhanced safety