



ELECTRIC TOUGH



HEAVY DUTY PERFORMANCE

CLASS 8 – 10 HOURS – UP TO 102,000 LBS GCWR

100% BATTERY-ELECTRIC CLASS 8 TERMINAL TRACTOR

Affordable, Dependable and Environmentally Friendly

The BYD 8Y utilizes the first battery specifically designed for vehicle electrification. Our proprietary iron phosphate technology is the core of BYD's Class 8 yard truck, enabling 10+ hours of operation between charges with minimal battery degradation. The Class 8 yard truck is manufactured at BYD's Lancaster, CA facility and is compliant with FMVSS and CMVSS regulations.

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- ✓ Environmentally friendly: no heavy metals or toxic electrolytes
 - ✓ Highly efficient, transversely mounted motors that are intergrated with the drive axle
 - ✓ Regenerative braking extends battery life and reduces brake component wear
 - ✓ Vehicle-to-Grid (V2G) system that allows the truck to deliver power back to the grid, to a load, or to another vehicle

WHAT SETS BYD APART



Build Your Dreams™



HIGH PERFORMANCE

BYD's breakthrough battery technology enables 10+ hrs of continuous operation.



ECO-FRIENDLY

Each truck equals 137 metric tons of CO2 eliminated or 129 acres of US forests saved each year.⁴⁵



FUEL SAVINGS

\$29,000 annual savings assuming 16 hours per day and 7 days per week.⁵



LONG-LASTING

BYD's batteries will still have 80% strength of charge after 5,000 cycles or 14 years if cycled every day.



SAFE

No thermal events, no oxygen released, and no cell swelling. Proprietary Battery Management System (BMS) assists with balancing and charging safety.



MAINTENANCE SAVINGS

\$9,300 annual savings. Fewer moving parts, less brake wear, and fewer fluids to change.⁵

Dimensions	Length	211.0 in
	Width	101.6 in
	Height	126.0 in
	Wheelbase	118.1 in
	Curb Weight	19,800 lbs
	GCWR	102,000 lbs
Performance	Payload	82,200 lbs
	Top Speed	29 mph
	Max Gradeability	15%
	Range	≥ 10 hours
	Approach/Depart Angle	29°/ 33°
	Chassis	Wheel Rim
Tires		11R22.5
Suspension		Front: Leaf Spring; Rear: None, Solid Mount
Brakes		Front / Rear "S-cam" Style, Air Drum Brakes
Fifth Wheel Plate Rating (Max)		70,000 lbs
Powertrain		Max Power
	Rated Power	201 hp
	Max Torque	1,106 lb-ft
	Rated Torque	738 lb-ft
	Max Motor Speed	3,500 rpm
	Battery Capacity	209 kWh
Savings	Charging Power	AC 100kW
	Charging Time	2.5 hrs (100kW)
	Lifetime CO2e Saved ⁴⁵	1,370 metric tons
	Lifetime Forest Saved ⁴⁵	1,290 acres
	Lifetime TCO Savings ⁴⁵	\$290,000 USD
	Return on Investment ⁴⁵	Under 2.3 Years

Note:

1. All information based on the latest data available at the time of printing. Final specs subject to change at production.
2. Initial capacity shown. Numbers may decrease with time and use.
3. Battery age and outside ambient temperature affect charging times.
4. Estimates based on 72-month financing, 58,400 hours, electricity cost of \$0.13/kWh & \$3.00/gal for Diesel
5. Savings forecast is an estimate, and will vary based on customer operational costs.