



# ELECTRIC TOUGH



## HEAVY DUTY PERFORMANCE

CLASS 8 – 15 HOURS – UP TO 102,000 LBS GCWR

### 100% BATTERY-ELECTRIC CLASS 8 TERMINAL TRACTOR

Affordable, Dependable and Environmentally Friendly

The Q1M 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 15 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 15 hours of continuous operation.



## ECO-FRIENDLY

Each truck equals 1590 metric tons of CO2 eliminated or 1500 acres of US forests saved.<sup>4</sup>



## FUEL SAVINGS

\$19,100 annual savings assuming 16 hours per day and 7 days per week.



## 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

\$8,800 annual savings. Fewer moving parts, less brake wear, and fewer fluids to change.

VEHICLE	Q1M	
Dimensions	Length	17.6 ft
	Width	102 in
	Height	126 in
	Wheelbase	118 in
	Curb Weight	19,800 lbs
	GCWR	102,000 lbs
Performance	Top Speed	33 mph
	Max Gradeability	15%
	Range	15 hours
	Turning Radius	21 ft
	Approach/ Departure Angle	29° / 33°
Chassis	Suspension	Leaf Spring 10L-9R Frong, Rigid Suspension Rear
	Brakes	Pneumatic Disc Brakes, ABS Optional, Regenerative braking
	Tires	11 R 22.5
Powertrain	Motor Type	AC Permanent Magnet Synchronous Motor
	Max Power	241 hp
	Max Torque	1106 lbs-ft
	Battery Type	Iron-Phosphate
	Battery Capacity	209 kWh
	Charging Capacity	200 kW / 100kW
	Charging Voltage	480 V AC 3-phase
Charging Time	1 hr (200 kW) or 2 hrs (100 kW)	

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. According to the California Air Resources Board GHG calculator based on 90,000 miles