

MINIMUM SPECIFICATION FOR A
ELECTRIC-POWERED VEHICLE

1. The Electric Vehicle shall be a four wheeled vehicle fully electric-power driven licensable as a low speed vehicle (LSV) making it street legal on roads 35 mph or less.
2. The electric vehicle will be used for transporting material and not more than two personnel from shop area to satellite work areas. The vehicle will be used in all types of weather both inside and outside enclosed industrial buildings for pick-ups and drop-offs.

3. Requirements

A. Configuration:

- Two door fully enclosed metal cab with lockable cargo box
- Minimum of 2500 pound capacity
- 1. Cab Requirements
 - Auto safety glass windshield and rear panel
 - Adjustable seat for different users
 - Roll up and down or sliding driver's and passenger's windows
 - Locking doors
- 2. Cargo Box Requirements
 - Lockable
 - Access doors on driver's side and rear

B. Dimensions:

- Vehicle shall not exceed 144" long and shall not be more than 60" wide and shall not be more than 90" high.
- Cargo box shall be a minimum of 76" long by 52" wide.
- Vehicle shall have a minimum of 6" ground clearance

C. Motor:

- Minimum of a 48 volt high-efficiency, AC induction motor
- Minimum of 17 horsepower

D. Travel/Speed:

- Capable of powered travel both forward and reverse.
- Travel direction controlled by a lever or switch.
- Capable of speeds up 18 mph as a minimum.

E. Steering: The electric vehicle shall be equipped with rack and pinion steering.

F. Brakes:

- The electric vehicle shall be equipped with four wheel hydraulic brakes to provide smooth reliable braking with minimal effort.
- The braking system shall employ non-asbestos brake linings.
- The parking brake shall be a manual hand operated lever.

G. Tires & Wheels: The electric vehicle shall be equipped with pneumatic tires for outdoor all-season use.

H. Accessories: The electric vehicle shall be equipped with a minimum of the following accessories:

- Dash Kit with instrumentation such as speedometer, hour meter battery charge/discharge indicator as a minimum.
- Windshield wipers
- Lights - The vehicle shall be equipped high/low halogen headlights, tail and stop/brake lights, turn signals and back up lights and amber warning strobe as a minimum.
- Rear and side view mirrors.
- Sun visors

I. Electrical System: The electrical system shall be 48 Volt DC minimum.

- All power and control circuits shall be fuse protected.
- All wiring shall be color coded for ease of service.

J. Battery: The electric vehicle shall be equipped with a minimum of a 48 Volt electrical system with a minimum of 260 Amp/hour with a minimum of full 1 year warranty. Charging shall be accomplished via standard 120 VAC power cord.

K. Color: White

4. Safety: The electric vehicle shall meet all applicable requirements of ANSI B56.1 1969-1988 Safety Standard for Powered Industrial Trucks and Underwriters Laboratories. Safety features to be included are as follows:

- a. - retractable seat belt.
- b. - electric horn.
- c. - amber strobe light.

d. - backup alarm.

5. Manuals: Operator's Manual, Parts Manual, Maintenance Manual and Electrical Drawings shall be included.

6. Delivery:

- The electric vehicle and its accessories shall be delivered at the same time, within 66 weeks or less of contract award and include the operator's manual, maintenance manual and electrical drawing.
- Electric vehicle shall be delivered to Building 15.

7. Inspection: Inspection shall be performed at Tobyhanna Army Depot to ensure that vehicle complies with requirements of this specification.

8. Warranty: The electric vehicle and its accessories furnished under this specification shall be warranted for a minimum of 1 year from the date of delivery. Warranty shall include all parts, labor, and accessories