



# Total Cost of Ownership

**2023 All Electric LS 400**

**August 2022**

**CENNTRO**



## SNAPSHOT OF ACHIEVEMENTS

### Geographic coverage across North America, Europe and Asia

- **An early entrant** that invested significantly since 2013
- **A global leader** in commercial EV sales and services. As of December 31, 2021, Cenntro have sold or put into service more than 3,700 vehicles.
- **A disruptor** that established decentralized distributed assembly facilities and a strong supply chain
- **An innovator** leading commercial EV electrification and autonomous driving



**3,700+**

Vehicles Delivered



**32+**

Countries Homologated



**\$250 million+**

Cash\*



**25+**

Countries Sold



**238+**

Patents Granted



**3**

Assembly Plants

# LS 400 - Launching Q3 in North America

**CENNTRO**



The LS 400 is an all electric Class 4 truck designed for urban delivery and logistics. It features two 40 kWh battery packs offering a range of 124 miles.

Availability: Order Book Open

Dimensions (LxWxH)	5998x2060x2730mm	236x81x107.5in
Cargo Box Size (LxWxH)	3750x2060x1900	147.6x81x74.8in
Cargo Capacity	18M <sup>3</sup>	636FT <sup>3</sup>
Max Speed	90km/h	62mile/h
Wheelbase	3600mm	141.7in
Payload	2470kg	5446lb
Gradeability		25%
Max Range NEDC	200km	124 mile
Gross Vehicle Weight Rate	6500kg	14330lb
Nominal Power		60kw
Peak Power		100kw
Battery Type		LiFePO4
Battery Capacity		127kwh



# Service Maintenance

The LS400 contains the following systems that require maintenance.

- **Shock Absorbers** supporting leaf springs. Hydraulic oil loses viscosity at 90k miles under normal wear & tear. 50k miles or sooner for heavy use. Labor time 1.6 hrs for 2 shocks.
- **Hydraulic Power Steering System**. Requiring fluid flush every 80K miles. .9 Labor Time (Using Fluid Recovery System)
- **Radiator Coolant** (for Liquid Cooled Motor). Flush required every 85K miles. .6 Labor Time (Using Fluid recovery and bleed out system)
- **Disc Brake Pads** for Air Brake System with Regen assist. Commercial Grade Ceramic Pads should last 90k miles with Regen assist. *Labor time 1.5 labor hours per wheel for front. 4.5 labor hours for dual rear wheels (requires grease repack on hub bearings)*
- **Dual 12v batteries**. Recommend replacement every 5 years.
- ***\*Costs varies on parts (good, better, best), shop hourly labor charge (retail, commercial, in-house)***



**Class-4 ICE**

vs **CENNTRO** Class-4 EV

**2022 Isuzu NPR-HD Gas/Diesel**

**2023 CENNTRO LS400**



# FUEL COMPARISON



Select models: C4 Isuzu NPR-HD Gas ▾ vs C4 Isuzu NPR-HD Diesel ▾

## Table

Annual Mileage	C4 Isuzu NPR-HD Gas Gal./Year @ 9.25 MPG*	Cost of Gas	C4 Isuzu NPR-HD Diesel Gal./Year @ 11.98 MPG*	Cost of Diesel	Fuel Cost Difference per Year	Initial Price Difference Less Credits / Incentives	Years to Payback Initial Purchase
5,000	541	\$2,191	417	\$2,113	\$78	(\$9,584)	0.00
7,500	811	\$3,286	626	\$3,169	\$117	(\$9,584)	0.00
10,000	1,081	\$4,381	835	\$4,226	\$156	(\$9,584)	0.00
15,000	1,622	\$6,572	1,252	\$6,339	\$233	(\$9,584)	0.00
20,000	2,162	\$8,763	1,669	\$8,451	\$311	(\$9,584)	0.00
25,000	2,703	\$10,953	2,087	\$10,564	\$389	(\$9,584)	0.00
30,000	3,243	\$13,144	2,504	\$12,677	\$467	(\$9,584)	0.00
35,000	3,784	\$15,334	2,922	\$14,790	\$544	(\$9,584)	0.00
40,000	4,324	\$17,525	3,339	\$16,903	\$622	(\$9,584)	0.00
45,000	4,865	\$19,716	3,756	\$19,016	\$700	(\$9,584)	0.00
50,000	5,405	\$21,906	4,174	\$21,129	\$778	(\$9,584)	0.00

# CENNTRO

Annual Mileage	Gas	Diesel	LS400	Savings (GAS)	Savings (Diesel)	10-year (Gas)	10-year (Diesel)	
5000	\$2,191.00	\$2,113.00	\$483.87	\$1,707.13	\$1,629.13	\$17,071.30	\$16,291.30	
7500	\$3,286.00	\$3,169.00	\$725.80	\$2,560.20	\$2,443.20	\$25,602.00	\$24,432.00	
10,000	\$4,381.00	\$4,226.00	\$967.74	\$3,413.26	\$3,258.26	\$34,132.60	\$32,582.60	
15,000	\$6,572.00	\$6,339.00	\$1,451.61	\$5,120.39	\$4,887.39	\$51,203.90	\$48,873.90	
20,000	\$8,763.00	\$8,541.00	\$1,935.48	\$6,827.52	\$6,605.52	\$68,275.20	\$66,055.20	
25,000	\$10,953.00	\$10,564.00	\$2,419.35	\$8,533.65	\$8,144.65	\$85,336.50	\$81,446.50	Payback Period @ MSRP
30,000	\$13,144.00	\$12,677.00	\$2,903.22	\$10,240.78	\$9,773.78	\$102,407.80	\$97,737.80	
35,000	\$15,334.00	\$14,790.00	\$3,387.09	\$11,946.91	\$11,402.91	\$119,469.10	\$114,029.10	
40,000	\$17,525.00	\$16,903.00	\$3,870.96	\$13,654.04	\$13,032.04	\$136,540.40	\$130,320.40	
45,000	\$19,716.00	\$19,016.00	\$4,354.83	\$15,361.17	\$14,661.17	\$153,611.70	\$146,611.70	
50,000	\$21,906.00	\$21,129.00	\$4,838.70	\$17,067.30	\$16,290.30	\$170,673.00	\$162,903.00	



# LS400 with 70-mile Battery Range @ AC

Annual Mileage	Gas	Diesel	CENNTRO						
			LS400	Savings (GAS)	Savings (Diesel)	10-year (Gas)	10-year (Diesel)		
5000	\$2,191.00	\$2,113.00	\$857.14	\$1,333.86	\$1,255.86	\$13,338.60	\$12,558.60		
7500	\$3,286.00	\$3,169.00	\$1,285.71	\$2,000.29	\$1,883.29	\$20,002.90	\$18,832.90		
10,000	\$4,381.00	\$4,226.00	\$1,714.28	\$2,666.72	\$2,511.72	\$26,667.20	\$25,117.20		
15,000	\$6,572.00	\$6,339.00	\$2,571.42	\$4,000.58	\$3,767.58	\$40,005.80	\$37,675.80		
20,000	\$8,763.00	\$8,541.00	\$3,428.57	\$5,334.43	\$5,112.43	\$53,344.30	\$51,124.30		
25,000	\$10,953.00	\$10,564.00	\$4,285.71	\$6,667.29	\$6,278.29	\$66,672.90	\$62,782.90		
30,000	\$13,144.00	\$12,677.00	\$5,142.85	\$8,001.15	\$7,534.15	\$80,011.50	\$75,341.50	Payback Period @ MSRP	
35,000	\$15,334.00	\$14,790.00	\$6,000.00	\$9,334.00	\$8,790.00	\$93,340.00	\$87,900.00		
40,000	\$17,525.00	\$16,903.00	\$6,857.14	\$10,667.86	\$10,045.86	\$106,678.60	\$100,458.60		
45,000	\$19,716.00	\$19,016.00	\$7,714.28	\$12,001.72	\$11,301.72	\$120,017.20	\$113,017.20		
50,000	\$21,906.00	\$21,129.00	\$8,571.42	\$13,334.58	\$12,557.58	\$133,345.80	\$125,575.80		





# LS400 TCO DC Fast

Annual Mileage	Gas	Diesel	CENNTRO					
			LS400	Savings (GAS)	Savings (Diesel)	10-year (Gas)	10-year (Diesel)	
5000	\$2,191.00	\$2,113.00	\$1,769.50	\$421.50	\$343.50	\$4,215.00	\$3,435.00	
7500	\$3,286.00	\$3,169.00	\$2,654.25	\$631.75	\$514.75	\$6,317.50	\$5,147.50	
10,000	\$4,381.00	\$4,226.00	\$3,539.00	\$842.00	\$687.00	\$8,420.00	\$6,870.00	
15,000	\$6,572.00	\$6,339.00	\$5,308.50	\$1,263.50	\$1,030.50	\$12,635.00	\$10,305.00	
20,000	\$8,763.00	\$8,541.00	\$7,078.00	\$1,685.00	\$1,463.00	\$16,850.00	\$14,630.00	
25,000	\$10,953.00	\$10,564.00	\$8,847.50	\$2,105.50	\$1,716.50	\$21,055.00	\$17,165.00	
30,000	\$13,144.00	\$12,677.00	\$10,617.00	\$2,527.00	\$2,060.00	\$25,270.00	\$20,600.00	NO Payback Period @ MSRP
35,000	\$15,334.00	\$14,790.00	\$12,386.50	\$2,947.50	\$2,403.50	\$29,475.00	\$24,035.00	
40,000	\$17,525.00	\$16,903.00	\$14,156.00	\$3,369.00	\$2,747.00	\$33,690.00	\$27,470.00	
45,000	\$19,716.00	\$19,016.00	\$15,925.50	\$3,790.50	\$3,090.50	\$37,905.00	\$30,905.00	
50,000	\$21,906.00	\$21,129.00	\$17,695.00	\$4,211.00	\$3,434.00	\$42,110.00	\$34,340.00	

