

Available ESB Models

The World Resources Institute (WRI) provides detailed information about ESBs. Their report <u>All About Types of Electric School Buses</u> includes links to <u>Electric School Bus U.S. Market Study</u> and the <u>Electric School Bus U.S. Buyers Guide</u>.

The Electric School Bus U.S. Market Study defines different school bus types:

- **Type A** buses are small, typically accommodating fewer than 36 passengers. Different manufacturers may be responsible for building different components of these buses, such as the chassis, power train, and body.
- **Type C** buses, with passenger capacities between 40 and 83 and a curved hood that increases front visibility, account for the majority of buses in the U.S. school bus fleet.
- Type D buses can seat up to 90 students.

The <u>Electric School Bus U.S. Buyers Guide</u> provides extensive details about each bus type by manufacturer along with a glossary of terms. Some of the details provided for Type C buses are shown in this screengrab from WRI's guide. Click the chart below to see more.

	Blue Bird	BYD	IC Bus/Navistar	
Model	Blue Bird Vision	Type C	IC CE Series Electric Bus/PB10E	
Price range (state contracts, 2022-23)₃	\$308,029 (FL)-\$491,330 (WA)	\$325,850 (NY)-\$413,500 (WV)	\$280,920 (LA)-\$447,861 (FL)	\$341
Gross vehicle weight rating (GVWR) (lbs.)	Up to 33,000	35,000	31,000 or up to 35,000	
Length (L)/width (W)/height (H)	L: Max 477" W: 96" H: 123"	L: 439"/472" W: 96" H: 124"	L: 303.9"/474.9" W: 96" H: 123"	
Passenger capacity	77	78	29-72	
Charger connector	L2: J1772 DCFC: CCS1	L2: J1772 DCFC: CCS1	L2: J1772 DCFC: CCS1	
Preferred EVSE InCharge ICE chargers; Nuvv		None	InCharge	
	L2: -InCharge (ICE-80) -Nuvve (PowerPort) -ClipperCreek (Level 2 [30-100A units]) -BTC Power (Level 2 80A) -JuiceBox (Level 2 80A) DC:	All chargers available on the	InCharge ICE 80AC, ICE 30, ICE 60, ICE 120, ICE 180	
> ≡ Cover Sheet Typ	e A Type C Type D Repo	owers Glossary +	_	

Miles per Charge by ESB Type

The tables below present data about nameplate ranges for bus models included in WRI's <u>Electric School Bus U.S. Buyers Guide</u>. Open the guide to find details about the models you're interested in.

Type A Nameplate Ranges

BYD GreenPower		Lightning eMotors	Lion Floatuio	Micro Bird	Motiv		Optimal-EV (Thomas Built		Phoenix Motorcars	VIA Motors	Zeus Electric Chassis	
ВТО	dieelirowei	Collins Bus	Lion Electric Micro B		Collins Bus	Endera	Trans Tech	Buses)		Pegasus Bus Company		
Type A	Nano BEAST	GMC Savana 4500/Chevrolet Express 4500	LionA	Micro Bird G5		EPIC4		E1 (Ford E450 Cutaway Cab Chassis)	G1 (GM 4500 Cutaway Chassis)	Ford E-450 Superduty Chassis	Class 3 Cutaway	Cutaway Z- 19 Chassis
105 miles	120 miles	130 miles	75 miles/ 150 miles	100 miles	1	05 miles	;	125	miles	120 miles	75-210 miles	120 miles/ 175 miles

Type C Nameplate Ranges

Blue Bird	BYD	IC Bus/Navistar Lion Electric		Thomas Built Buses	
Blue Bird Vision	Type C	IC CE Series Electric Bus/PB10E	LionC	Saf-T-Liner C2 Jouley	
120 miles/150 miles	175 miles	135 miles/210 miles	100 miles/125 miles	138 miles	

Type D Nameplate Ranges

Blue Bird	BYD	GreenPower	Lion
All-American	Type D	BEAST	LionD
120 miles	155 miles	140 miles	100 miles/125 miles



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