

Targeted User and Customer: Manual Wheelchair Users
 Use: Boost when you need it in daily urban life

Customer Need	Product Attributes	Engineering Specifications
Can be lifted into car by user	Weight	< 8 lbs. additional weight
Sufficient boost for user comfort	Motor torque	~4.75 Nm each motor
Functions for a full day on a single charge	20 x 12' ramps + 60 min	50 W-h battery
Control safety	Motor controller	Fail-safe off; no false direction triggers
Speed safety	Speed limit	5 mph
Reliable	MTBF	1 year
All-weather	Resistant to water and temperature variations	NEMA 4X, -20 to 110°F
Value	Cost	\$1000 beyond manual chair
Width ADA compliant	Width	< 32 in (chair + system)
Easy to disassemble	Assembly Time	< 30 sec to remove wheels