

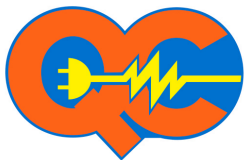
100% Capacity

No Battery Degradation

# Rav4 Range Chart for 41.8 kWh Tesla Battery

Level Road, No Heating/Air Conditioning, Ambient/Battery Temp 70F, Windows Closed

English Measure



QUICK CHARGE POWER

			Level Road, No Heating/Air Conditioning, Ambient/Battery Temp 70F, Windows Closed									English Measure
			45	50	55	60	65	70	75	80	85	Speed
			exactly	exactly	exactly	exactly	exactly	exactly	exactly	exactly	exactly	MPH
			- or -	- or -	- or -	- or -	- or -	- or -	- or -	- or -	- or -	Miles/kWh
			4.7	4.3	3.9	3.6	3.4	3.1	2.7	2.4	2.0	kWh
			9.57	11.63	14.10	16.67	19.12	22.58	27.78	33.33	42.50	kWh/mile
50.0	Total		0.213	0.233	0.256	0.278	0.294	0.323	0.370	0.417	0.500	
kWh	%	kWh	Fuel Bar									
41.8	100	6.8	196	180	163	150	142	129	113	100	84	100%
			Extended Range Charge									Full
35.0	84	2.2	165	151	137	126	119	109	95	84	70	3/4
32.8	78	2.2	144	132	119	110	104	95	83	73	61	1/2
30.6	73	2.2	123	113	102	94	89	81	71	63	52	1/4
28.4	68	2.2	102	94	85	78	74	68	59	52	44	Empty
26.2	63	2.2	82	75	68	63	59	54	47	42	35	
24.0	57	2.2	61	56	51	47	44	40	35	31	26	
21.8	52	2.2	40	37	34	31	29	27	23	21	17	
19.6	47	2.2	20	18	16	15	14	13	11	10	8	
17.4	42	2.2	0	0	0	0	0	0	0	0	0	
15.2	36	2.2										
13.0	31	2.2										
10.8	26	2.2										
8.6	21	2.2										
6.4	15	2.2										
4.2	10	2.2										
2.0	5	2.2										
0	0.0											

Turtle **Get Safely Off Road Now! Less than One Half Mile at 35 mph Max** Turtle

mph	45	50	55	60	65	70	75	80	85
Miles/kWh	4.7	4.3	3.9	3.6	3.4	3.1	2.7	2.4	2.0

Fuel Bar 2 = Low Battery Warning (LBW); Fuel Bar 1 = Very Low Battery; Fuel Bar 0 = Climate Control Limited (CCL)

Range can be significantly reduced battery cell imbalances - the car can stop with one fuel bar  
 This chart's range data is not associated with the the dash estimated range data (GOM), or EnTunes data  
 Data: 41.8kWh usable new battery capacity factor. **MAXIMUM RANGE at about 15-20mph** (not average speed)  
 Add **One mile** of range @ 65mph (or 3.4m/kWh) for every **17 minute** charge at **120 volt / 12 amp**  
 Add **One mile** of range @ 65mph (or 3.4m/kWh) for every **3 minutes** of charge at **208 volt / 30 amp**  
 For Urban Stop-Go driving, select data from column that matches estimated miles/kWh column, NOT speed

- Elevation: Subtract 1.8kWh for every 1000 ft  
Add 1kWh for every 1000 ft decrease
- Wind: Select Speed based on Headwind; 60mph with 10mph headwind equals 70mph data
- Temperature: Reserved until such time as we learn the power requirements of TMS
- Battery Degradation: expect 10% at 50,000 miles and 20% at 100,000 miles
- Climate Control: seat heaters use only 0.025kW! The cabin heater & battery heater use 6kW each
- 5b. Cabin air conditioning is very efficient and a low consumption user compared to heaters
- Density Altitude: Increase range 1% per 1000 ft for air density above sea level
- Heavily loaded cars and cars driving through standing water, snow or slush use more energy

**DISCLAIMER:**

YOUR RANGE MAY VARY  
 USE AT YOUR OWN RISK

English  
 Ver 2