

Charging Time

For a PHEV, where electric driving is limited (40 miles is typical),
it was assumed that these vehicles do not support use of DC charging:

				AC L1 charger [kW]	AC L2 charger [kW]				DC Charger [kW]			
Type of Vehicle	Energy efficiency [kWh/mile]	Daily mile driven [miles]		1.5	3.6	7.2	11.5	19.2	50	150	250	350
Light-duty PHEV	0.3	20	Charge Duration [Hour]	4.0	1.7	0.8	0.5	0.3	NA	NA	NA	NA
		40		8.0	3.3	1.7	1.0	0.6	NA	NA	NA	NA
		80		16.0	6.7	3.3	2.1	1.3	NA	NA	NA	NA
		150		16.0	6.7	3.3	2.1	1.3	NA	NA	NA	NA
		250		16.0	6.7	3.3	2.1	1.3	NA	NA	NA	NA
Light-duty BEV	0.3	20	Charge Duration [Hour]	4.0	1.7	0.8	0.5	0.3	0.1	<0.1	<0.1	<0.1
		40		8.0	3.3	1.7	1.0	0.6	0.2	0.1	<0.1	<0.1
		80		16.0	6.7	3.3	2.1	1.3	0.5	0.2	0.1	0.1
		150		30.0	12.5	6.3	3.9	2.3	0.9	0.3	0.2	0.1
		250		50.0	20.8	10.4	6.5	3.9	1.5	0.5	0.3	0.2
Light-duty truck BEV	0.5	20	Charge Duration [Hour]	6.7	2.8	1.4	0.9	0.5	0.2	0.1	<0.1	<0.1
		40		13.3	5.6	2.8	1.7	1.0	0.4	0.1	0.1	0.1
		80		26.7	11.1	5.6	3.5	2.1	0.8	0.3	0.2	0.1
		150		50.0	20.8	10.4	6.5	3.9	1.5	0.5	0.3	0.2
		250		83.3	34.7	17.4	10.9	6.5	2.5	0.8	0.5	0.4
Medium and Heavy- duty BEV 150-200 miles range	1.5	20	Charge Duration [Hour]	20.0	8.3	4.2	2.6	1.6	0.6	0.2	0.1	0.1
		40		40.0	16.7	8.3	5.2	3.1	1.2	0.4	0.2	0.2
		80		80.0	33.3	16.7	10.4	6.3	2.4	0.8	0.5	0.3
		150		150.0	62.5	31.3	19.6	11.7	4.5	1.5	0.9	0.6
		250		250.0	104.2	52.1	32.6	19.5	7.5	2.5	1.5	1.1
Medium and Heavy- duty BEV 250-300 miles range	2	20	Charge Duration [Hour]	26.7	11.1	5.6	3.5	2.1	0.8	0.3	0.2	0.1
		40		53.3	22.2	11.1	7.0	4.2	1.6	0.5	0.3	0.2
		80		106.7	44.4	22.2	13.9	8.3	3.2	1.1	0.6	0.5
		150		200.0	83.3	41.7	26.1	15.6	6.0	2.0	1.2	0.9
		250		333.3	138.9	69.4	43.5	26.0	10.0	3.3	2.0	1.4