

Electric Vehicle Charging Times Guide for Level II

Reference Only

EV's may not all be available in Canada. Please check with your Car Dealer for availability & for updated information on battery/charger size and range.

February 2017 rev.



Station Amperage

Charging Output

Required Non GFI breaker

16 Amp	20 Amp Mini	30 Amp	32 Amp	40 Amp
3.8kw	4.8kw	7.2kw	7.7kw	9.6kw
20A 2 pole	30A 2 pole	40A 2 pole	40A 2 pole	50A 2 pole

Car Type/Model / EPA Size Class	Type	Battery Pack	On-Board Charger	Est. Battery Range (km)	Total Range if PHEV	Cost to charge if fully depleted @ 10c kWh	Estimated Charging Time (hours) for full charge				
							16 Amp	20 Amp Mini	30 Amp	32 Amp	40 Amp

Best match

2 Seaters & Mini Compacts

Fiat 500E	BEV	24 kWh	6.6kW	134		\$ 2.40	6.3	5	3.6	3.6	3.6
SMART for two	BEV	17.6 kWh	3.3kW	109		\$ 1.76	5.3	5.3	5.3	5.3	5.3

Sub Compacts

BMW i3 60ah 2014-2016	BEV	22 kWh	6.6kW	130		\$ 2.20	4.9	3.9	2.9	2.9	2.9
BMW i3 REX 2014-2016	PHEV	18.8 kWh	6.6kW	130	200	\$ 1.88	4.9	3.9	2.9	2.9	2.9
BMW i3 60ah 2017	BEV	33 kWh	7.4kW	182		\$ 3.30	8.7	6.9	4.6	4.5	4.5
BMW i3 REX 2017	PHEV	33 kWh	7.4kW	182	288	\$ 3.30	8.7	6.9	4.6	4.5	4.5
Chevrolet Bolt (2017)	BEV	60 kWh	7.2kW	380		\$ 6.00	15.8	12.5	8.3	8.3	8.3
Chevy Spark	BEV	20 kWh	3.3kW	131		\$ 1.90	6	6	6	6	6
Hyundai IONIQ Electric 2017	BEV	28 kWh	6.6kW	176		\$ 2.80	7.4	5.8	4.5	4.5	4.5
Mitsubishi i MiEV	BEV	16 kWh	3.3kW	94		\$ 1.60	4.8	4.8	4.8	4.8	4.8

Mini Station Wagon's & Compacts

Audi A3 E-tron	PHEV	9 kWh	3.3kW	25	608	\$ 0.90	2.7	2.7	2.7	2.7	2.7
Chevy Volt (up to 2015)	PHEV	16.5-17.1 kWh	3.3kW	61	600	\$ 1.71	5	5	5	5	5
Chevy Volt (2016/17)	PHEV	18.4 kWh	3.6kW	85	672	\$ 1.84	5.1	5.1	5.1	5.1	5.1
Ford C-Max Energie	PHEV	7.6 kWh	3.3kW	32	880	\$ 0.76	2.5	2.5	2.5	2.5	2.5
Ford Focus Electric up to 2016	BEV	23 kWh	6.6kW	122		\$ 2.30	6	4.8	3.5	3.5	3.5
Ford Focus Electric 2017	BEV	33.5 kWh	6.6kW	184		\$ 3.35	8.8	7	5.1	5.1	5.1
Kia Soul EV (2015 - 2017)	BEV	27 kWh	6.6kW	149		\$ 2.70	7	5.6	4	4	4
Nissan Leaf pre 2013 models	BEV	24.2 kWh	3.3kW	120		\$ 2.42	7.3	7.3	7.3	7.3	7.3
Nissan Leaf 2014-2015	BEV	24.2 kWh	6.6kW	135		\$ 2.42	6.4	5	3.7	3.7	3.7
Nissan Leaf 2016-2017	BEV	30 kWh	6.6kW	172		\$ 3.00	7.9	6.2	4.5	4.5	4.5
Volkswagen eGolf 2017	BEV	35.8 kWh	7.2kW	201		\$ 2.40	9.4	7.5	5	5	5

Mid Size

BMW i8	PHEV	7.1 kWh	3.7kW	24	496	\$ 0.71	2	2	2	2	2
Cadillac ELR	PHEV	17 kWh	3.3kW	58	512	\$ 1.70	5	5	5	5	5
Ford Fusion Energie	PHEV	7.6 kWh	3.3kW	35	982	\$ 0.76	2.3	2.3	2.3	2.3	2.3
Fisker Karma / Karma	PHEV	20 kWh	3.3kW	51	450	\$ 2.00	6	6	6	6	6
Hyundai Sonata Plug-in	PHEV	9.8 kWh	3.3kW	43	925	\$ 1.00	3	3	3	3	3
Mitsubishi Outlander 4WD (2017?)	PHEV	12 kWh	3.3kW	52		\$ 1.20	3.5	3.5	3.5	3.5	3.5
Tesla Model 3 (coming 2018)	BEV	40-45kWh?	?	345		\$4 - 4.50?	No actual specs available, no charging speed info NA				
Toyota Prius Prime 2017	PHEV	8.8 kWh	3.3kW	35	960	\$ 8.80	2.3	2.3	2.3	2.3	2.3

Full Size

Mercedes C350 Plug-In Hybrid	PHEV	6.2 kWh	3.3kW	32	NA	\$ 0.64	1.9	1.9	1.9	1.9	1.9
Mercedes-Benz S550 (2016)	PHEV	8.7 kWh	3.3kW	22	NA	\$ 0.87	2.5	2.5	2.5	2.5	2.5
Porsche Panarama 4 E-Hybrid 2017	PHEV	14.1 kWh	3.6kW/7.2kW	50		\$ 1.08	3.9	3.9/6.3	6.3/2.0	6.3/2.0	6.3/2.0
Tesla Model S P60D	BEV	60 kWh	10/20 kW	381		\$ 6.00	15.8	12.5	8.3	7.8	6.3
Tesla Model S P75D	BEV	75 kWh	10/20 kW	379		\$ 7.50	19.7	15.6	10.4	9.7	7.8
Tesla Model S P85D	BEV	85 kWh	10/20 kW	456		\$ 8.50	22.4	17.7	11.8	11	8.9
Tesla Model S P90D	BEV	90 kWh	10/20 kW	512		\$ 9.00	23.7	18.8	12.5	11.7	9.4
Tesla Model S P100D	BEV	100 kWh	10/20 kW	572		\$ 10.00	26.3	20.8	13.9	13	10.4

SUV's / Vans / Trucks

Audi Q7 E-Tron (2017)	PHEV	17.3 kWh	7.4kW	55	545	\$ 1.73	4.6	3.6	2.4	2.3	2.3
Porsche Cayenne S E-Hybrid	PHEV	10.8 kWh	3.6kW/7.2kW	22	768	\$ 1.08	3.3	3/2.3	3/1.5	3/1.5	3/1.5
Tesla Model X 60D	BEV	60 kWh	10/20 kW	320		\$ 7.50	22.3	17.7	11.9	11	8.85
Tesla Model X P90D	BEV	90 kWh	10/20 kW	400		\$ 9.00	23.7	18.8	12.5	11.7	9.4
Tesla Model X 100D	BEV	100 kWh	10/20 kW	465		\$ 10.00	26.3	20.8	13.9	13	10.4
Volvo XC90 AWD PHEV	PHEV	9.2 kWh	3.5 Kw	22	560	\$ 9.20	2.4	2.4	2.4	2.4	2.4
Via Motors V-TRUX	PHEV	23 kWh	6.6kw	64	704	\$ 2.30	6.1	4.8	3.5	3.5	3.5



Providing Industry Leading Electric Vehicle Charging Technology & Service!

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