

# Electric Vehicle Charge Time Comparison

## Battery Electric & Plug-In Hybrid Vehicles



### BATTERY ELECTRIC VEHICLES

| Type of Vehicle                    | On-Board<br>Charger (kW) | Battery<br>Capacity (kWh) | Level 1 (12 A)<br>Charge Time<br>(Hours) Auto<br>Manufacturer<br>Supplied | Level 2 (30 A)<br>Charge Time<br>(Hours)<br><b>Leviton<br/>EVR30-B18</b> | Level 2 (40 A)<br>Charge Time<br>(Hours)<br><b>Leviton<br/>EVR40-B25</b> |
|------------------------------------|--------------------------|---------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| BMW ActiveE                        | 7                        | 32                        | 23                                                                        | 4.5                                                                      | 4.5                                                                      |
| BMW i3 ('14-'16)                   | 7.4                      | 23                        | 16.5                                                                      | 3                                                                        | 3                                                                        |
| BMW i3 2017 (60 Ah Battery)        | 7.4                      | 23                        | 16.5                                                                      | 3                                                                        | 3                                                                        |
| BMW i3 2017 (90 Ah Battery)        | 7.4                      | 32                        | 23                                                                        | 4.5                                                                      | 4.5                                                                      |
| Chevrolet Bolt                     | 7.2                      | 60                        | 43                                                                        | 8.5                                                                      | 8.5                                                                      |
| Chevrolet Spark                    | 3.3                      | 23                        | 16.5                                                                      | 7                                                                        | 7                                                                        |
| Fiat 500E                          | 6.6                      | 24                        | 17                                                                        | 3.5                                                                      | 3.5                                                                      |
| Ford Focus EV                      | 6.6                      | 23                        | 16.5                                                                      | 3.5                                                                      | 3.5                                                                      |
| 2017 Ford Focus EV                 | 6.6                      | 33.5                      | 24                                                                        | 5                                                                        | 5                                                                        |
| Hyundai Ioniq                      | 6.6                      | 28                        | 20                                                                        | 5                                                                        | 5                                                                        |
| Kia Soul                           | 6.6                      | 27                        | 19.5                                                                      | 4                                                                        | 4                                                                        |
| Mercedes B Class B250e             | 9.6                      | 28                        | 20                                                                        | 3.5                                                                      | 3                                                                        |
| Mitsubishi i-MIEVE                 | 3.3                      | 16                        | 11.5                                                                      | 5                                                                        | 5                                                                        |
| Nissan Leaf (3.3 kW)               | 3.3                      | 24                        | 17                                                                        | 7.5                                                                      | 7.5                                                                      |
| Nissan Leaf (6.6 kW)               | 6.6                      | 24                        | 17                                                                        | 3.5                                                                      | 3.5                                                                      |
| 2016-2017 Nissan Leaf<br>(SL & SV) | 6.6                      | 30                        | 21.5                                                                      | 4.5                                                                      | 4.5                                                                      |
| 2017 Nissan Leaf (3.3 kW)          | 3.3                      | 30                        | 21.5                                                                      | 9                                                                        | 9                                                                        |
| 2017 Nissan Leaf (6.6 kW)          | 6.6                      | 30                        | 21.5                                                                      | 4.5                                                                      | 4.5                                                                      |
| Tesla Model S 60                   | 9.6                      | 60                        | 43                                                                        | 8                                                                        | 6.5                                                                      |
| Tesla Model S 70                   | 9.6                      | 70                        | 50                                                                        | 9                                                                        | 7.5                                                                      |
| Tesla Model S 85                   | 9.6                      | 85                        | 60.5                                                                      | 11                                                                       | 9                                                                        |
| Tesla Model S 90                   | 9.6                      | 90                        | 64.5                                                                      | 11.5                                                                     | 9.5                                                                      |
| Tesla Model S 100                  | 9.6                      | 100                       | 71.5                                                                      | 13                                                                       | 10.5                                                                     |
| Toyota RAV4                        | 9.6                      | 41.8                      | 30                                                                        | 5.5                                                                      | 4.5                                                                      |
| VW e-Golf (3.6 kW)                 | 3.6                      | 24                        | 17                                                                        | 6.5                                                                      | 6.5                                                                      |
| VW e-Golf (7.2 kW)                 | 7.2                      | 24                        | 17                                                                        | 3.5                                                                      | 3.5                                                                      |
| Zenith 350 Van                     | 9.6                      | 62.5                      | 44.5                                                                      | 8                                                                        | 6.5                                                                      |

## PLUG-IN HYBRID VEHICLES

| Type of Vehicle                        | On-Board<br>Charger (kW) | Battery<br>Capacity (kWh) | Level 1 (12 A)<br>Charge Time<br>(Hours) Auto<br>Manufacturer<br>Supplied | Level 2 (30 A)<br>Charge Time<br>(Hours)<br>Leviton<br>EVR30-B18 | Level 2 (40 A)<br>Charge Time<br>(Hours)<br>Leviton<br>EVR40-B25 |
|----------------------------------------|--------------------------|---------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| Audi A3 E-Tron                         | 3.3                      | 8.8                       | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| Audi Q7 E-Tron                         | 7.2                      | 17.3                      | 12.5                                                                      | 2.5                                                              | 2.5                                                              |
| BMW 330e                               | 3.6                      | 7.6                       | 5.5                                                                       | 2                                                                | 2                                                                |
| BMW 530e                               | 3.6                      | 9.2                       | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| BMW 740e                               | 3.6                      | 9.2                       | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| BMW i8                                 | 3.6                      | 7.1                       | 5                                                                         | 2                                                                | 2                                                                |
| BMW X5 xDrive-40e                      | 3.6                      | 9                         | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| Cadillac CT6                           | 3.6                      | 18.4                      | 13                                                                        | 4.5                                                              | 4.5                                                              |
| Cadillac ELR                           | 3.3                      | 16.5                      | 12                                                                        | 4                                                                | 4                                                                |
| Chevrolet Volt                         | 3.3                      | 16.5                      | 12                                                                        | 4                                                                | 4                                                                |
| Chevrolet Volt 2016/2017               | 3.6                      | 18.4                      | 13                                                                        | 4.5                                                              | 4.5                                                              |
| Chrysler Pacifica                      | 6.6                      | 16                        | 11.5                                                                      | 4                                                                | 4                                                                |
| Fisker Karma                           | 3.3                      | 16                        | 11.5                                                                      | 4                                                                | 4                                                                |
| Ford C-Max Energi                      | 3.3                      | 7.6                       | 5.5                                                                       | 2                                                                | 2                                                                |
| Ford Fusion Energi                     | 3.3                      | 7.6                       | 5.5                                                                       | 2                                                                | 2                                                                |
| Honda Accord                           | 6.6                      | 6.7                       | 5                                                                         | 1                                                                | 1                                                                |
| Kia Optima                             | 6.6                      | 9.8                       | 7                                                                         | 3                                                                | 3                                                                |
| Hyundai Sonata                         | 3.3                      | 9.8                       | 7                                                                         | 3                                                                | 3                                                                |
| Mercedes C350 Hybrid                   | 3.3                      | 6.2                       | 4.5                                                                       | 2                                                                | 2                                                                |
| Mercedes GLE 550e                      | 3.3                      | 8.8                       | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| Mercedes 550 Hybrid                    | 3.3                      | 8.7                       | 6                                                                         | 2.5                                                              | 2.5                                                              |
| Mini Cooper S E Countryman<br>ALL4     | 3.3                      | 7.6                       | 5.5                                                                       | 2.5                                                              | 2.5                                                              |
| Mitsubishi Outlander                   | 3.3                      | 12                        | 8.5                                                                       | 3.5                                                              | 3.5                                                              |
| Porsche Cayanne S E-Hybrid             | 3.6                      | 10.8                      | 7.5                                                                       | 3                                                                | 3                                                                |
| Porsche Cayanne S E-Hybrid<br>Upgrade  | 7.2                      | 10.8                      | 7.5                                                                       | 1.5                                                              | 1.5                                                              |
| Porsche Panamera S E-Hybrid            | 3.6                      | 9.4                       | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| Porsche Panamera S E-Hybrid<br>Upgrade | 7.2                      | 9.4                       | 6.5                                                                       | 1.25                                                             | 1.25                                                             |
| Porsche Panamera 4 E-Hybrid            | 3.6                      | 14.1                      | 10                                                                        | 4                                                                | 4                                                                |
| Porsche Panamera 4 E-Hybrid<br>Upgrade | 7.2                      | 14.1                      | 10                                                                        | 2                                                                | 2                                                                |
| Porsche 918 Spyder                     | 3.6                      | 6.8                       | 5                                                                         | 2                                                                | 2                                                                |
| Toyota Prius EV                        | 3.3                      | 4.4                       | 3                                                                         | 1.5                                                              | 1.5                                                              |
| Toyota Prius Prime EV                  | 3.3                      | 8.8                       | 6.5                                                                       | 2.5                                                              | 2.5                                                              |
| Volvo V60                              | 3.3                      | 11.2                      | 8                                                                         | 3.5                                                              | 3.5                                                              |
| Volvo XC90 T8                          | 3.3                      | 9.2                       | 6.5                                                                       | 3                                                                | 3                                                                |

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