

UK Charging Networks

	Speed (kW)	Info	Notes	Monthly or equivalent monthly cost	Connection cost per charge	Stated cost per kWh	Cost per kWh or effective cost per kWh for 616 miles / 176kWh	Cost per month for the average UK mileage of 616 miles
Petrol								£67.76
Diesel								£61.60
BP Pulse Free membership	3.6		Prices may vary at different locations nationally.	0.000	1.200	0.000	0.041	7.20
BP Pulse Contactless	3.6		Prices may vary at different locations nationally.	0.000	1.200	0.000	0.041	7.20
Charge Your Car	3.6		Annual membership of £20. Prices vary between locations.	1.667	1.000	0.000	0.044	7.67
BP Pulse Subscription	3.6		Monthly membership. Prices may vary at different locations nationally.	7.850	0.000	0.000	0.045	7.85
Ubitricity Residential Pro	5.5	https://www.ubitrlicity.co.uk/product/smartcable/	Bespoke cable is £299 which is not included in the cost.	7.990	0.190	0.162	0.214	37.64
Ubitricity Direct Access	5.5	https://www.ubitrlicity.co.uk/		0.000	0.190	0.240	0.246	43.38
Electric Blue	3.6	National pricing may vary, based on Brighton pricing.		0.000	0.200	0.260	0.267	46.96
GeniePoint	3.6	https://evsolutions.engie.co.uk/drivers/geniepoint-pricing/		0.000	0.500	0.300	0.317	55.80
GeniePoint (Inside M25)	3.6	https://evsolutions.engie.co.uk/drivers/geniepoint-pricing/		0.000	0.500	0.300	0.317	55.80
Char.gy PAYG	5.5	https://char.gy/pricing		0.000	0.000	0.330	0.330	58.08
Char.gy Unlimited	5.5	https://char.gy/pricing		68.000	0.000	0.000	0.386	68.00
Char.gy Casual	5.5	https://char.gy/pricing		38.990	0.000	0.195	0.417	73.31
Pod-Point	7.4		The majority of Pod-Points are free.	0.000	0.000	0.000	0.000	0.00
Tesla Destination	7.4			0.000	0.000	0.000	0.000	0.00
E-Carni	7.4	http://www.ecarni.com/		0.000	0.000	0.000	0.000	0.00
ChargePlace Scotland	7.4		Annual membership of £20.	1.667	0.000	0.000	0.009	1.67
Charge Your Car	7.4		Annual membership of £20. Prices vary between locations.	1.667	1.000	0.000	0.044	7.67
Home Economy 7	7.4		Does not include cost of charging point.	0.000	0.000	0.100	0.100	17.60
BP Pulse Subscription	7.4	https://network.bppulse.co.uk/pricing/	Monthly membership	7.850	0.000	0.120	0.165	28.97
Home Charging	7.4		Does not include cost of charging point.	0.000	0.000	0.166	0.166	29.22
BP Pulse Free membership	7.4	https://network.bppulse.co.uk/pricing/		0.000	0.000	0.180	0.180	31.68
Gridserve EV	22	https://www.gridserve.com/electric-vehicles-going-electric/		0.000	0.000	0.240	0.240	42.24
BP Pulse Contactless	7.4	https://network.bppulse.co.uk/pricing/		0.000	0.000	0.250	0.250	44.00
Alfa Power 22kW	22	https://www.alfapower.co.uk/customer-service-faq.php		0.000	0.000	0.250	0.250	44.00
Electric Blue	7.4	National pricing may vary, based on Brighton pricing.		0.000	0.200	0.270	0.277	48.72
Source London Full 22kW	22	https://www.sourcelondon.net/rates	Cost is time based, 9.5p per minute. To charge 80% of 40kWh battery 22kW charger would take 1.45hours or 87 minutes. Hence cost would be £8.26 per 32kWh charge session or £0.258 per kWh. Plus monthly cost.	4.000	0.000	0.258	0.281	49.41
Alfa Power (Contactless) 22kW	22	https://www.alfapower.co.uk/customer-service-faq.php		0.000	0.000	0.300	0.300	52.80
GeniePoint	7.4	https://evsolutions.engie.co.uk/drivers/geniepoint-pricing/		0.000	0.500	0.300	0.317	55.80
GeniePoint (Inside M25)	7.4	https://evsolutions.engie.co.uk/drivers/geniepoint-pricing/		0.000	0.500	0.300	0.317	55.80
Source London Flexi 22kW	22	https://www.sourcelondon.net/rates	Cost is time based, 11.9p per minute. To charge 80% of 40kWh battery 22kW charger would take 1.45hours or 87 minutes. Hence cost would be £10.35 per 32kWh charge session or £0.322 per kWh. Plus monthly cost of £10 per year.	0.833	0.000	0.322	0.327	57.51
Source London Full	7.4	https://www.sourcelondon.net/rates	Cost is time based, 3.6p per minute. To charge 80% of 40kWh battery @7kW charger would take 4.57hours or 274 minutes. Hence cost would be £9.86 per 32kWh charge session or £0.308 per kWh. Plus monthly cost.	4.000	0.000	0.308	0.331	58.21
Source London PAYG 22kW	22	https://www.sourcelondon.net/rates	Cost is time based, 14.3p per minute. To charge 80% of 40kWh battery 22kW charger would take 1.45hours or 87 minutes. Hence cost would be £12.44 per 32kWh charge session or £0.388 per kWh.	0.000	0.000	0.388	0.388	68.29
Source London Flexi	7.4	https://www.sourcelondon.net/rates	£10 one off fee included as annual cost, divided by 12 months. Cost is time based, 5.9p per minute. To charge 80% of 40kWh battery @7kW charger would take 4.57hours or 274 minutes. Hence cost would be £16.16 per 32kWh charge session or £0.505 per kWh. Plus monthly cost.	0.833	0.000	0.505	0.510	89.71
Source London PAYG	7.4	https://www.sourcelondon.net/rates	Cost is time based, 7p per minute. To charge 80% of 40kWh battery @7kW charger would take 4.57hours or 274 minutes. Hence cost would be £19.18 per 32kWh charge session or £0.599 per kWh. This exceeds 4h charging limit, though for comparison we have kept the time required.	0.000	0.000	0.600	0.600	105.60
E-Carni	50	http://www.ecarni.com/		0.000	0.000	0.000	0.000	0.00
ChargePlace Scotland	50		Annual membership of £20.	1.667	0.000	0.000	0.009	1.67
ChargerNet	50	https://www.poole.gov.uk/streets-and-travel/chargernet/	£20 annual fee, £4 per hour. To charge 80% of 40kWh battery @50kW charger would take 0.64hours or 38 minutes. Hence cost would be £4 per 32kWh charge session or £0.125 per kWh.	1.667	0.000	0.125	0.134	23.67
Ecotricity (Fully Charged Bundle)	50	https://www.ecotricity.co.uk/for-the-road/our-electric-highway		0.000	0.000	0.150	0.150	26.40
BP Pulse Subscription	50	https://network.bppulse.co.uk/pricing/	Monthly membership	7.850	0.000	0.150	0.195	34.25
Pod-Point LIDL	50			0.000	0.000	0.230	0.230	40.48
Gridserve EV	350	https://www.gridserve.com/electric-vehicles-going-electric/		0.000	0.000	0.240	0.240	42.24
BP Pulse Free membership	50	https://network.bppulse.co.uk/pricing/		0.000	0.000	0.250	0.250	44.00
Alfa Power	60	https://www.alfapower.co.uk/customer-service-faq.php		0.000	0.000	0.250	0.250	44.00
Pod-Point TESCO	50			0.000	0.000	0.260	0.260	45.76
Electric Blue	50	National pricing may vary, based on Brighton pricing.		0.000	0.200	0.270	0.277	48.72
ESB EV Solutions Membership	50	https://www.esb-evsolutions.co.uk/pricing/payg		4.990	0.000	0.250	0.278	48.99
ESB EV Solutions PAYG	50	https://www.esb-evsolutions.co.uk/pricing/payg	£10 one off fee included as annual cost, divided by 12 months.	0.833	0.000	0.290	0.295	51.87
Ecotricity	50	https://www.ecotricity.co.uk/for-the-road/our-electric-highway		0.000	0.000	0.300	0.300	52.80
BP Pulse Contactless	50	https://network.bppulse.co.uk/pricing/		0.000	0.000	0.300	0.300	52.80
Alfa Power (Contactless)	60	https://www.alfapower.co.uk/customer-service-faq.php		0.000	0.000	0.300	0.300	52.80
ESB EV Solutions PAYG (London)	50	https://www.esb-evsolutions.co.uk/pricing/payg	£10 one off fee included as annual cost, divided by 12 months.	0.833	0.000	0.300	0.305	53.63
ESB EV Solutions Membership (London)	50	https://www.esb-evsolutions.co.uk/pricing/payg		4.990	0.000	0.280	0.308	54.27
Charge Your Car	50	https://m.chargeyourcar.org.uk/chargePoint?bayNo=70630&referrer=&scheme=default&mapHeight=900&mapZoom=10	Annual membership of £20. Prices vary between locations. Crawley used as example.	1.667	0.000	0.300	0.309	54.47
GeniePoint	50	https://evsolutions.engie.co.uk/drivers/geniepoint-pricing/		0.000	1.000	0.300	0.334	58.80
Instavolt	50	https://instavolt.co.uk/rates/		0.000	0.000	0.350	0.350	61.60
Osprey Charging	50	https://ospreycharging.co.uk/ev-drivers/		0.000	0.000	0.360	0.360	63.36
GeniePoint (Inside M25)	50	https://evsolutions.engie.co.uk/drivers/geniepoint-pricing/		0.000	1.800	0.300	0.361	63.60
Shell Recharge	50	https://support.shell.com/hc/en-gb/articles/115002988472-How-much-does-Shell-Recharge-cost-		0.000	0.000	0.390	0.390	68.64
Gridserve EV	350	https://www.gridserve.com/electric-vehicles-going-electric/		0.000	0.000	0.240	0.240	42.24
Tesla Superchargers	250	https://www.tesla.com/en_GB/support/supercharging		0.000	0.000	0.260	0.260	45.76
BP Pulse Subscription	150	https://network.bppulse.co.uk/pricing/	Monthly membership	7.850	0.000	0.270	0.315	55.37
Shell Recharge	150	https://support.shell.com/hc/en-gb/articles/115002988472-How-much-does-Shell-Recharge-cost-		0.000	0.000	0.390	0.390	68.64

	Speed (kW)	Info	Notes	Monthly or equivalent monthly cost	Connection cost per charge	Stated cost per kWh	Cost per kWh or effective cost per kWh for 616 miles / 176kWh	Cost per month for the average UK mileage of 616 miles
Petrol								£67.76
Diesel								£61.60
BP Pulse Free membership	150	https://network.bppulse.co.uk/pricing/		0.000	0.000	0.420	0.420	73.92
BP Pulse Contactles	150	https://network.bppulse.co.uk/pricing/		0.000	0.000	0.420	0.420	73.92
Ionity	350	https://ionity.eu/en/where-and-how.html		0.000	0.000	0.690	0.690	121.44
Average Slow			Not including free networks				0.222	39.07
Average Fast			Not including free networks				0.266	46.78
Average Rapid			Not including free networks				0.269	47.34
Average Ultra			Not including free networks				0.391	68.76

Settings

		Notes
Average monthly mileage	616	Taken from: https://www.racfoundation.org/motoring-faqs/mobility#a24
Average home UK electricity per kWh E7	£0.1000	Taken from: https://www.gov.uk/government/statistical-data-sets/annual-domestic-energy-price-statistics (sheet 2.2.4)
Average home UK electricity per kWh	£0.1660	Taken from: https://www.gov.uk/government/statistical-data-sets/annual-domestic-energy-price-statistics (sheet 2.2.4)
UK Advisory fuel rate cost per mile (1401 to 2000 CC Petrol)	£0.1100	Taken from: https://www.gov.uk/government/publications/advisory-fuel-rates/how-advisory-fuel-rates-are-calculated
UK Advisory fuel rate cost per mile (1601 to 2000 CC Diesel)	£0.1000	Taken from: https://www.gov.uk/government/publications/advisory-fuel-rates/how-advisory-fuel-rates-are-calculated
Average miles per kW	3.5	
Car battery size (kWh)	40	
Charge amount	80%	
kWh of energy needed per month	176	
Number of chargers required for mileage	6	