

PLUGS & CHARGES TESLA MODEL S

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VEHICLE	PLUG-CABLE	FROM VEHICLE	AVAILABLE ON WALL VOLT/AMPERE	POWER	LOAD CAPACITY /H LOADING	
1		Standard Schuko 2 pin plug 	 Alternative current socket monophase 230V 13A	3,0 kW	14 km/h	
2		IEC 60309 "Mennekes" 3 pin plug (blue) 	 Alternative current socket monophase 230V 32A	7,4 kW	40 km/h	
3		IEC 60309 "Mennekes" 5 pin plug (red) 	 Alternative current socket triphase 230/400V 16A	11 kW	55 km/h	
4		"Vynckier" 3 pin plug 		 Alternative current socket Monophase 230V 32A	7,4 kW	40 km/h
5		IEC 60309 "Mennekes" 5 pin plug (red) (limited 16A via TeslaCable) 		 Alternative current socket Triphase 230/400V 32A	11 kW	55 km/h
6		"Vynckier" 5 pin plug (limited 16A via TeslaCable) 		 Alternative current socket triphase 230/400V 32A	11 kW	55 km/h
7		IEC 62196 "Mennekes" Plug Type 2 	 Terminal-Wallbox Type 2 triphase 230V 16A 230V 32A 400V 16A 400V 32A (Twincharger)	3,7 kW 7,4 kW 11 kW 22 kW	18 km/h 36 km/h 55 km/h 110 km/h	
8		"Schneider" Plug Type 3c (France) 	 Terminal-Wallbox Type 3 monophase/triphase 230V 16A 230V 32A 400V 16A 400V 32A (Twincharger)	3,7 kW 7,4 kW 11 kW 22 kW	18 km/h 36 km/h 55 km/h 110 km/h	
9		"Tesla CHAdeMO Adapter" 	 CHAdeMO Direct Current 120A	50 kW	≈ 280 km/h	
10		 Supercharger Direct Current 200A (often limited)	120 kW	≈ 400 km/45min		

FORMULA : $V \times A \times \sqrt{p} \times \cos \varphi = W$ MONO : $230 \times 32 \times \sqrt{1} = 7.360 \approx 7,4 \text{ kW}$ TRI : $400 \times 16 \times \sqrt{3} = 11.072 \approx 11 \text{ kW}$
 V = Volt ~ A = Ampere ~ p = number phases ~ $\sqrt{1} = 1 \sim \sqrt{3} = 1,73 \sim \cos \varphi$ = the power factor is often close to 1 ~ Always earth pin and neutral pin

CHAdeMO, Scheider & Mennekes are registered brands
 Credit photos - common creative

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