FRONIUS WATTPILOT

The intelligent charging solution for all electric car drivers that leaves nothing to be desired

With the Fronius Wattpilot, every electric car driver can decide how they would like to charge their car. Charging is extremely affordable in combination with a variable electricity tarif.

The Fronius Wattpilot is available in two versions: the permanently mounted Wattpilot Home for the household and the mobile Wattpilot Go for on the move. The device can be operated using the associated Solar.wattpilot app, which also provides an overview of the charging process at the same time. The intelligent plug and play charging solution has two different charging modes called Eco and Next Trip. What's more, the Wattpilot is PV-optimised, meaning that the car can be charged particularly cost-effectively and sustainably in ampere increments of surplus solar energy.

TECHNICAL DATA FRONIUS WATTPILOT

INPUT DATA	WATTPILOT GO 11 J	WATTPILOT GO 22 J	WATTPILOT HOME 11 J
Maximum charging power	11 kW	22 kW	11 kW
Mains supply types		TT / TN / IT	
Mains connection	CEE16 plug red 5-pin / 30 cm including neutral conductor	CEE32 plug red 5-pin / 30 cm including neutral conductor	5-pin cable / 200 cm including neutral conductor
Optional adapter set	CEE32 red fused, CEE blue camping plug, safety plug 16 A	CEE16 red, CEE blue camping plug, safety plug 16 A	–
Nominal voltage		230 V (1-phase) / 400 V (3-phase)	
Nominal current (configurable)	6–16 A 1-phase or 3-phase	6–32 A 1-phase or 3-phase	6–16 A 1-phase or 3-phase
Grid frequency		50 Hz	
Power consumption for standby		1.9 W (LED not lit), 4.2 W (LED brightly lit)	
Charging socket		Type 2 infrastructure socket with mechanical lock	
Residual current device		30 mA AC[1], 6 mA DC integrated in the device	
Supply line cable cross-section	Min. 2.5 mm²	Min. 6 mm²	Min. 2.5 mm²

[1] An additional 30 mA AC residual current circuit breaker as well as a miniature circuit breaker must be installed upstream.

GENERAL DATA	WATTPILOT GO 11 J	WATTPILOT GO 22 J	WATTPILOT HOME 11 J
PV optimisation	Dynamic PV surplus charging from 1.38–11 kW (automatic 1-/3-phase switching)	Dynamic PV surplus charging from 1.38–22 kW (automatic 1-/3-phase switching)	Dynamic PV surplus charging from 1.38–11 kW (automatic 1-/3-phase switching)
Network connection		WLAN[2]	
Use		Indoors or outdoors	
Type of installation		Hanging upright	
Protection class		IP 54 (IP 44 with type 2 cable plugged in)	
Standards /guidelines		IEC 61851-1, IEC 62196	
Dimensions (L × B × H)		25.1 × 14.6 × 9.6 cm	
Weight	1.6 kg	1.9 kg	
Average ambient temperature over 24 hours		Max. 35° C	
Ambient temperature		-25 °C to +40 °C (without direct sunlight)	
Humidity		Between 5% and 95%	
Altitude		0 – 2.000 m	
Impact resistance		IK08	
Communication protocols		OCPP 1.6 J	

[2] The Fronius Wattpilot supports WLAN standards 802.11 b/g/n in the 2.4 GHz band with WEP, WPA, WPA2 and WPA3

SAFETY FUNCTIONS:

/ RFID access control: charging can only be started by selected persons with a valid ID-Chip (RFID).
/ Theft-proof charging socket lock.
/ Additional cable protection can be fitted for the charging box (lock not included in scope of supply): the Wattpilot cannot be removed by simply disconnecting it.
/ Residual current device with direct current detection: 30 mA AC, 6 mA DC.
/ Phase and voltage testing of the input voltage prevents damage to the charging unit of the electric car if a phase is missing.
/ Auxiliary contact on the relays for checking the switching function (faulty relays are detected).
/ Earthing detection (can be switched off, “Norway function”).
/ Three-phase current sensor to evaluate the charging current.
/ Miniature fuse for internal electronics that can be changed by the customer prevents a fault if the supply line is connected incorrectly.
/ Adapter recognition with automatic reduction to 16 A (only for Wattpilot Go 22 J).
/ Temperature monitoring: current is reduced if the temperature is too high.

THE ADVANTAGES AT A GLANCE:

/ **Cost-effective charging with variable green electricity tariffs**
The electric car can be charged very cheaply from the grid with green electricity through the use of variable green electricity tariffs, particularly at night during low-tariff periods.

/ **Standalone app: “Solar.wattpilot”**
To operate the Wattpilot, the Solar.wattpilot app (iOS and Android) is available for electric car owners. The device can be put into operation with just a few clicks, charging settings can be made and charging processes visualised.

/ **Dynamic PV surplus charging**
Dynamic PV surplus charging can be used to charge the electric car with ampere increments of surplus PV by means of 1/3-phase switching. This results in higher self-consumption rates and the PV system paying for itself more quickly.

/ **Two different charging modes: Eco and Next Trip**
Depending on customer requirements, the electric car can either be charged in an extremely environmentally friendly manner or in a way that is tailored perfectly to the next journey.

/ **Network connection via WLAN**

/ **Can be used anywhere**
With the mobile Wattpilot Go, the electric car can be charged anywhere – at home, at work or on holiday.

Check out our how-to videos on Youtube.

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 5,660 employees worldwide and 1,321 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at **www.fronius.com**

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