

Fronius International GmbH Froniusplatz 1, 4600 Wels

FRONIUS PRODUCTS AND SOLUTIONS OVERVIEW



AGENDA

- / Presentation of company **Fronius**
 - / Vision 24 hours of sun
- / Fronius **SnaplNverter** series
- / Fronius Smart Meter
- / Fronius **Ohmpilot**
- / Fronius world of storage
- / Meet the new heroes!
 - / Fronius GEN24 Plus
 - / Fronius Tauro



/ Perfect Welding / Solar Energy / Perfec

1945 to 2020 – 75 years of Fronius

Fronius company presentation



HOW IT ALL BEGAN





GLOBAL DEVELOPMENT





STABILITY FOR GENERATIONS





THREE BUSINESS UNITS



INVERTERS DESIGNED & PRODUCED IN AUSTRIA









FRONIUS SOLHUB



/ Perfect Welding / Solar Energy / Perfec

System design with Fronius products and solutions

The Fronius inverter solutions



OUR PRODUCTS

12





WE HAVE DONE THIS A MILLION TIMES





FRONIUS SNAPINVERTER SERIES SEEN ONE – SEEN THEM ALL!





EASIEST INSTALLATION & COMMISSIONING SNAPINVERTER CONCEPT



- / Practical and light-weight wall bracket
- / All connections integrated safe to touch
- / Installation and service by 1 person





/ Perfect Welding / Solar Energy / Perfec

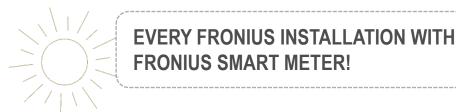
Fronius Smart Meter

Consumption data with Fronius Smart Meter



FRONIUS SMART METER

- / Fronius Smart Meter and Fronius Smart Meter TS
- / Basis for complete monitoring in Fronius Solar.web
 - / Analysis and visualisation of consumption data
- / Bidirectional energy meter
 - / Differentiation between grid supply und grid feed-in









MONITORING IN FRONIUS SOLAR.WEB

- / Energy balance (daily/ monthly/ yearly)
- / Own consumption visualisation
- / Service messages
- / Remote update
- / Premium version (chargeable option)
 - / Reports and data analysis
 - / Consumption analysis
 - / Battery and Ohmpilot simulation
 - / Weather widget
 - / Connection to Amazon Alexa



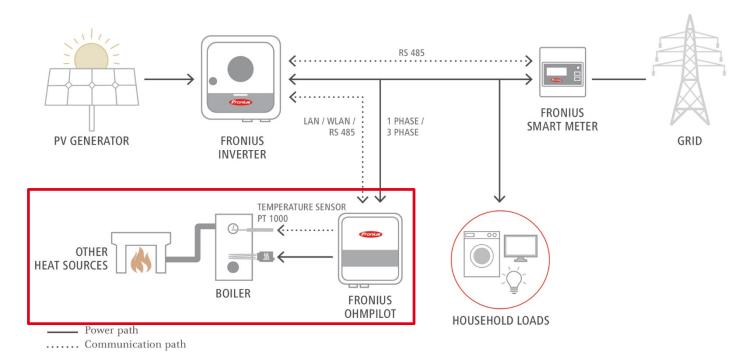
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Storage of surplus energy – hot water storage

Fronius Ohmpilot



ELECTRICITY AND HEAT





FRONIUS OHMPILOT THE HEATING MIRACLE

Fronius Ohmpilot

Stepless regulation

3-phase up to 9 kW

Ohmic loads only

Highest efficiency

Maximum self-consumption





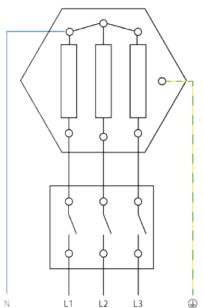


SUITABLE LOADS

Heating rods

- / 1-phase: 0,3 to 3 kW
- / 3-phase: 0,9 to 9 kW
 - / Neutral must be carried out
- / without active electronic!





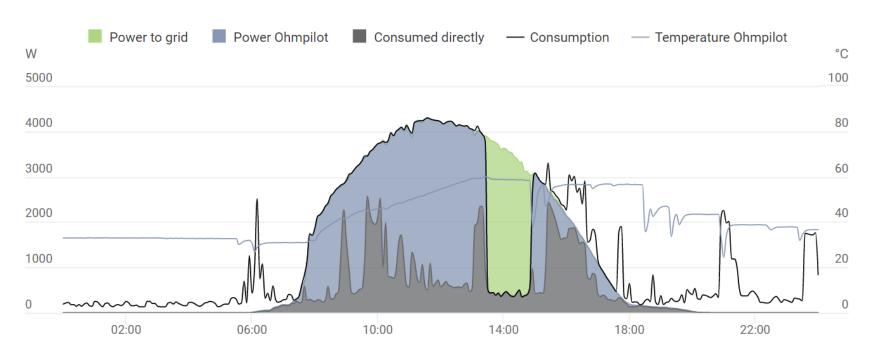
Other omic loads

- / Various infrared heaters,
- / towel radiators,
- / Etc...



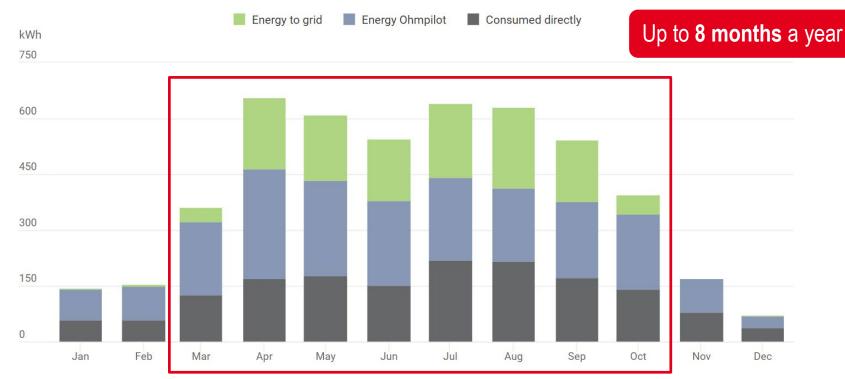


GENERATING HOT WATER WITH THE SUN





GENERATING HOT WATER WITH THE SUN



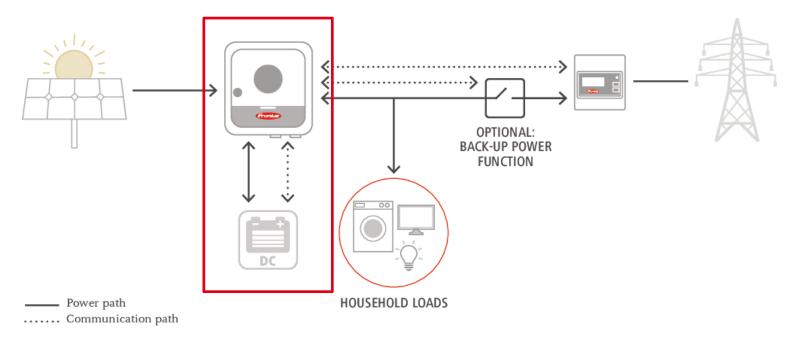
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Fronius world of storage

Battery storage solutions



ELECTRICITY AND BATTERY STORAGE





FRONIUS SYMO HYBRID RELIABILITY OVER YEARS

Fronius Symo Hybrid

Three-phase

Highest efficiency

Power classes: 3 - 5 kW

Maximum self-consumption

1 MPPT + 1 battery input







BATTERY STORAGE SYSTEMS



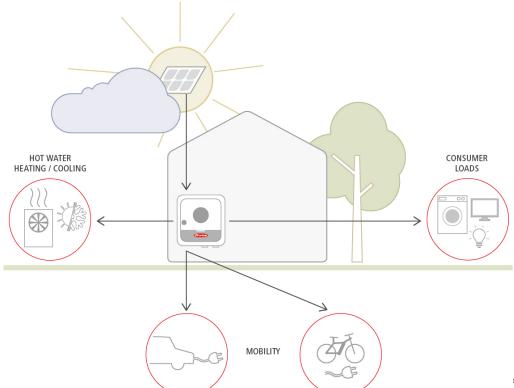
BYD Battery-Box Premium HVM

Fronius Symo Hybrid & Fronius Smart Meter

LG Chem RESU



FULL EXTENSION WITH FRONIUS GEN24 PLUS



/ Perfect Welding / Solar Energy / Perfec

Fronius GEN24 Plus and Tauro series

Meet the new heroes!



FRONIUS GEN24 PLUS



Available now!

FRONIUS GEN24 PLUS UNIQUELY VERSATILE

Fronius Primo GEN24 Plus

Fronius Symo GEN24 Plus

Single-phase

Three-phase

Power classes: 3 - 6 kW

Power classes: 6 - 10 kW

2 MPPT + 1 battery input

2 MPPT + 1 battery input







FRONIUS GEN24 PLUS FOR HOT WATER AND HEATING

Maximum self-consumption

Using own energy

Using surplus energy

Fronius Ohmpilot

Efficient storage solution







FRONIUS GEN24 PLUS FOR SYSTEMS WITH/WITHOUT BATTERY

Battery connection

Increase self-consumption

Easy retrofitting

BYD Battery-Box Premium HVS / HVM

Inexpensive solution





GEN24 PLUS STORAGE SOLUTION



BYD BATTERY-BOX PREMIUM HVS/HVM

Safety.

/ Lithium iron phosphate (LiFePO4)

Modularity.

/ HVS: 5.1-10.2 kWh, 2-4 modules

/ HVM: 11-22.1 kWh, 4-8 modules

Retrofitable.

/ 2,6 kWh (HVS) or 2.8 kWh (HVM) steps

Easy installation.

/ Ground mounting

/ Easy commissioning



MAXIMUM BACK-UP POWER: FULL BACK-UP



3-PHASE* BACK-UP POWER

Overall supply.

Of entire household

Maximum supply.

Automatic switch-over < 60 sec.

Electric loads.

Single-phase and three-phase

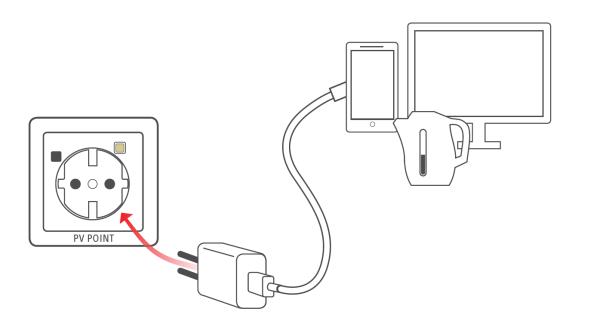
Maximum energy consumption.

Parallel (dis)charging (Multi Flow)

* With Fronius Symo GEN24 Plus



BASIC GRID BACKUP: PV POINT



PV POINT ON BOARD

Back-up connection.

Only supplied in case of grid outage

Automatic re-connection.

In case of power outage

Electric loads.

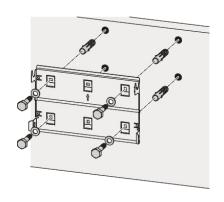
Up to 3 kW, single-phase

Easy installation.

No additional installation necessary



EASY AND FAST INSTALLATION



Lightweight wall bracket

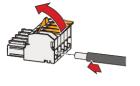


Easy mounting concept - SnapIN -



Fastest access 180° locking screws





No tool, no torque Spring connection



COMMISSIONING VIA APP

FRONIUS SOLAR.START

3 easy
steps
=
user-friendly

Automatic WiFi-connection

Easiest commissioning

Fronius Solar.Start









OPEN INTERFACES



COMMUNICATION INTERFACES ON BOARD

LAN

WLAN

Modbus RTU/TCP SunSpec

Digital IO's

Fronius Solar API (JSON)





REQUIREMENTS OF ELECTRIC CAR OWNERS

Quick charging





Intelligent charging

Cost-efficient charging





WATTPILOT

CHARGING ON MY TERMS

CHARGING POWER

/ 11 kW or 22 kW

A HOST OF FEATURES AND FUNCTIONS

- / PV surplus charge
- / Compatible with variable electricity tariffs
- / Intelligent charging modes
- / RFID authentication

STANDALONE APP

/ Commissioning, operation and visualisation





VARIANTS OF THE WATTPILOT

	Wattpilot Go 11 J	Wattpilot Go 22 J	Wattpilot Home 11 J
Max. charging power	11 kW	22 kW	11 kW
Mains connection	CEE16 plug red 5- pin including neutral conductor	CEE 32 plug red 5- pin including neutral conductor	3~NPE 400 V / 230 V
Nominal current	6-16 A Single-phase or three-phase	6-32 A Single-phase or three-phase	6-16 A Single-phase or three-phase



The intelligent charging solution for all electric car drivers. Even without PV system





FRONIUS TAURO ROBUST COMMERCIAL INVERTER

Fronius Tauro Eco D/P

Fronius Tauro Booster D/P

1 MPPT

3 MPPT

Power classes: 50 / 100 kW

Power class: 50 kW

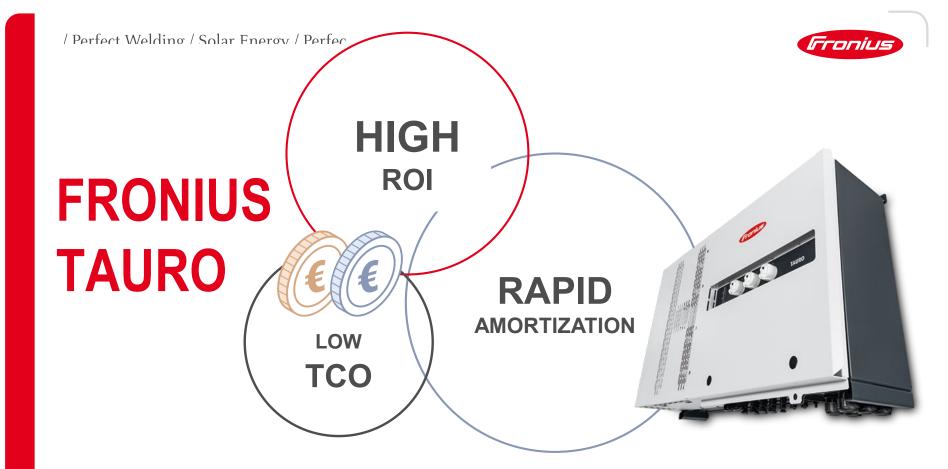
DC input voltage: 580-1000 V

DC input voltage: 200-1000 V

2021

2021







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