

pV magazine **spotlight**



Maximum efficiency at work – Fronius’ GEN24 Plus hybrid inverter

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Powered by
Fronius



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/ Perfect Welding / Solar Energy / Perfect Charging



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MAXIMUM EFFICIENCY AT WORK – FRONIUS GEN24 PLUS HYBRID INVERTER

/ Perfect Welding / Solar Energy / Perfect Charging

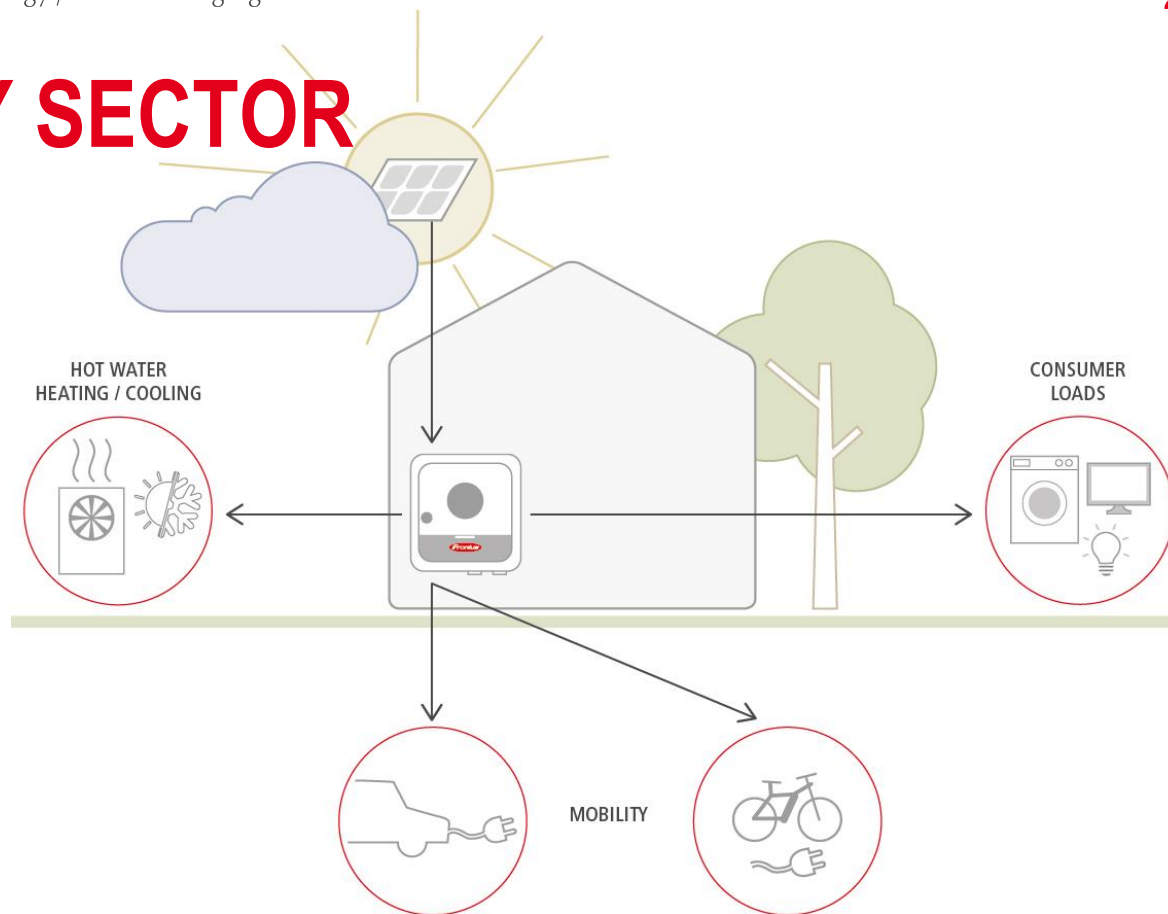


FRONIUS GEN24 PLUS

UNIQUELY VERSATILE



ENERGY SECTOR COUPLING



FRONIUS GEN24 PLUS

UNIQUELY VERSATILE

Fronius Primo GEN24 Plus

Single-phase

Power classes: 3 - 6 kW

2 MPPT + 1 battery input

Fronius Symo GEN24 Plus

Three-phase

Power classes: 6 - 10 kW

2 MPPT + 1 battery input



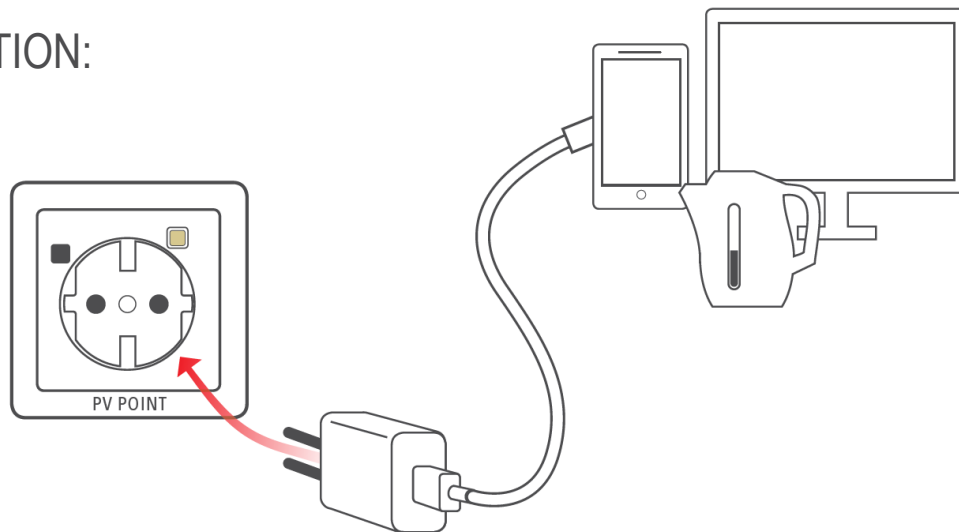
THE GEN24 PLUS

FOR MAXIMUM INDEPENDENCE DURING A GRID OUTAGE



BASIC BACKUP POWER FUNCTION: **PV POINT**

- / Socket supplied in case of a grid outage
- / Loads up to 3 kW
 - / Symo: 4.1 kW for 5 sec. (starting power)
 - / Primo: 4.7 kW for 5 sec. (starting power)
- / Works with and without a battery
- / No time-consuming additional installation (backup switch) required



THE GEN24 PLUS

FOR MAXIMUM INDEPENDENCE DURING A GRID OUTAGE



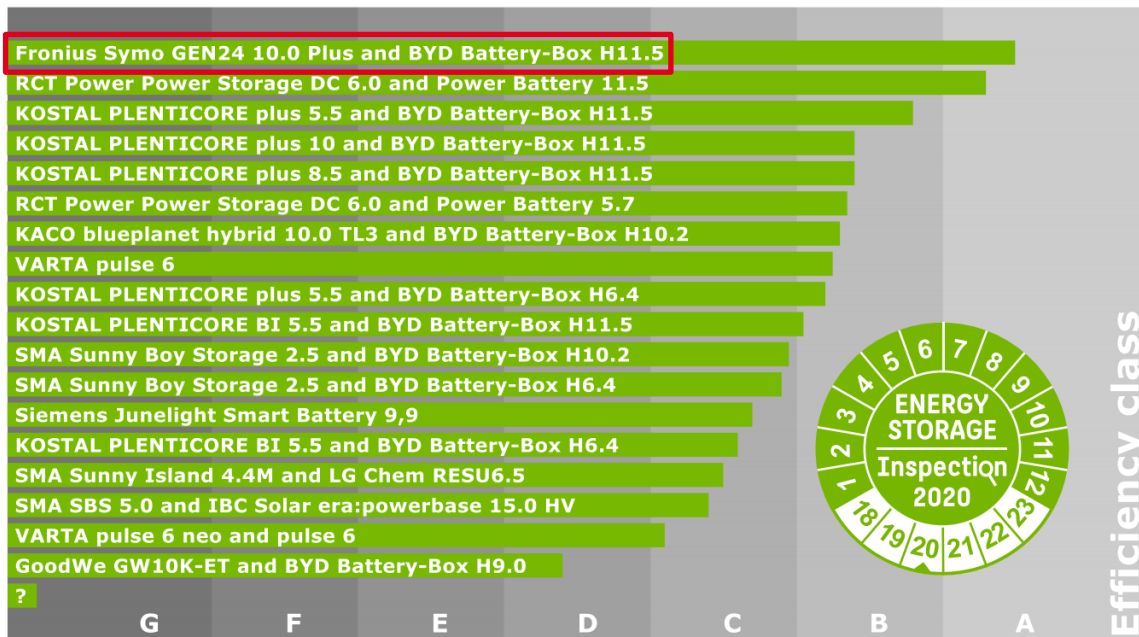
REAL 3-PHASE BACKUP POWER:
FULL BACKUP

- / Supply of the entire household
- / Real, 3-phase backup power (Symo GEN24 Plus)
- / Energy independence in case of a grid outage
- / Automatic switchover
- / Battery is required



THE GEN24 PLUS

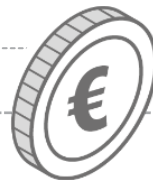
FOR MAXIMUM SYSTEM EFFICIENCY WITH BYD



1ST PLACE AT THE ENERGY STORAGE
INSPECTION OF HTW BERLIN

94% OVERALL EFFICIENCY WITH BYD

/ best result of all time



Maximum yields

Highest self-consumption rate

Fastest profitability

THE GEN24 PLUS

FOR MAXIMUM FLEXIBILITY IN SYSTEM DESIGN



SUPERFLEX DESIGN

- / Broad DC input voltage range
- / 2 MPP Tracker + extra battery input
- / Symo GEN24 Plus (3-phase): 80-1000V DC
- / Primo GEN24 Plus (1-phase): 65-600V DC



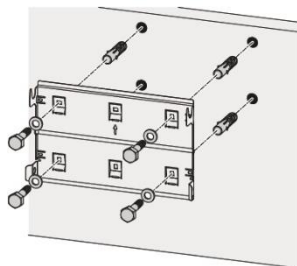
**STRINGS FROM 3 MODULES ON
CAN BE REALISED**

THE GEN24 PLUS

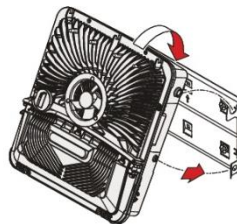
FOR EASY INSTALLATION AND COMMISSIONING

FASTEST COMMISSIONING with the Solar.start app in 3 easy steps

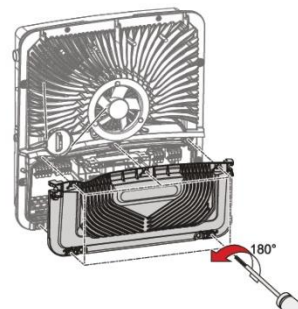
QUICK INSTALLATION thanks to new mounting concept



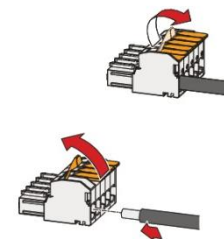
Lightweight wall bracket



Easy mounting concept -
SnapIN -



Fastest access
180° locking screws



No tool, no torque
Spring connection

THE GEN24 PLUS

FOR THE FASTEST SERVICE ON THE MARKET



EASY AND FAST EXCHANGE
OF THE POWER STAGE

NO NEED TO EXCHANGE
THE WHOLE INVERTER

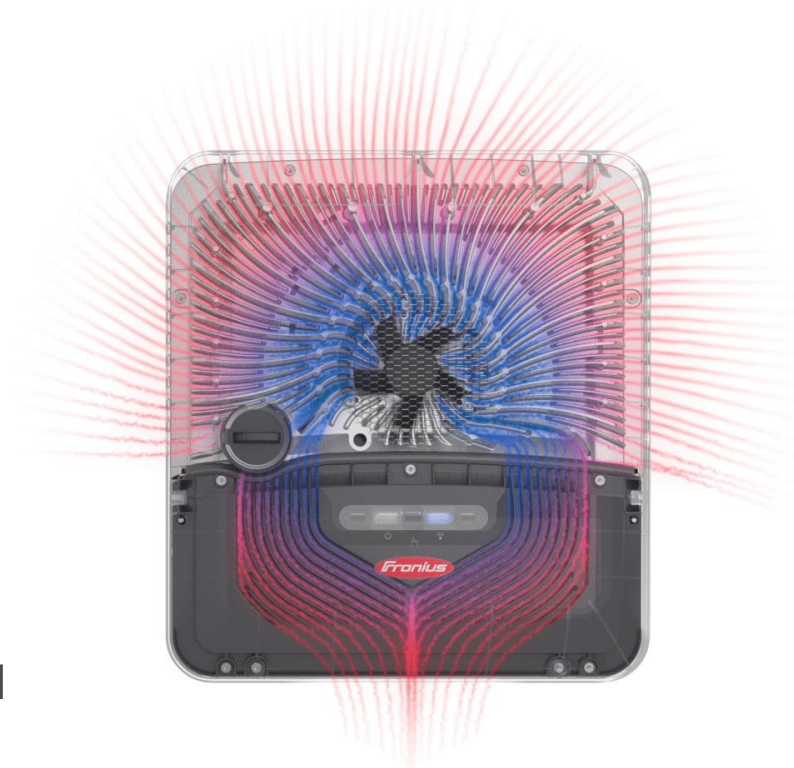
THE GEN24 PLUS

FOR THE LONGEST LIFE SPAN



ACTIVE COOLING

- / **LONGER LIFE SPAN**
of the inverter through active cooling
- / **LATER POWER DERATING**
at high temperatures
- / **MORE YIELD** and **FASTER AMORTISATION**



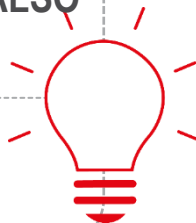
THE GEN24 PLUS

FOR MAXIMUM BATTERY CHARGING AND DISCHARGING POWER

- / Battery input with **22 AMP**
- / Charging/discharging power up to **9 kW**

EFFICIENT USE OF THE BATTERY ALSO
DURING GRID OUTAGE

HIGHEST
SELF-CONSUMPTION RATES



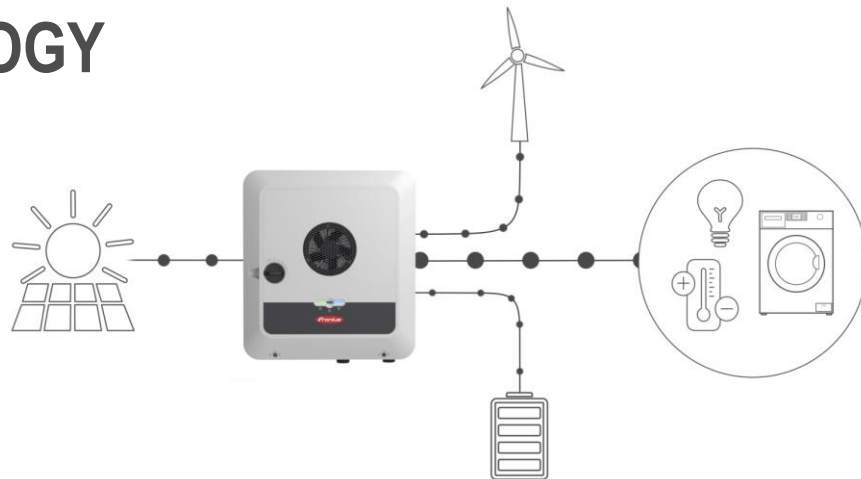
THE GEN24 PLUS

FOR OPTIMAL UTILISATION OF ENERGY



MULTI FLOW TECHNOLOGY

- / Allows **PARALLEL** energy flows
- / Battery can also be charged from the **AC-SIDE** (e.g. from an existing PV system or wind turbine)



THE GEN24 PLUS

FOR MAXIMUM YIELDS DESPITE SHADING



DYNAMIC PEAK MANAGER

- / Shadow-tolerant algorithm that always finds the **BEST OPERATING POINT** (Global Maximum Power Point)
- / **HIGHEST YIELDS** even with partial shading
- / Efficient shading management can make **POWER OPTIMISER REDUNDANT**



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