



FRONIUS Primo 5kW Single Phase Solar Inverter

Description

For over 60 years the name Fronius has stood for intensive research and the constant search for new, innovative solutions. The perfect efficiency of every product has repeatedly been awarded both national and international prizes.

The Fronius primo range of single-phase inverters sets the new standard for residential solar systems by combining incredible efficiency, ultimate functionality and unrivalled reliability.

Key Features

- In-built Wifi monitoring allows you to track real-time solar output and energy savings.
- Wide input voltage range provides greater flexibility with design and longer performance times.
- Snap-Inverter mounting system allows for rapid service processes and upgradability.
- Zero-export capability and other built-in features future proof the inverter to grid changes.

Key Benefits

- Maximum efficiencies > 97.6%.
- 10 year warranty as standard.
- Regulated air cooling keeps the inverter silently performing at maximum output.
- Wide ambient temperature range maintains higher efficiencies through extreme temperatures.
- 24 / 7 Australian support office ensures quick response times and service quality.



/ PC board replacement process



/ SnapInverter mounting system



/ Wireless monitoring



/ Open data communication



/ Smart Grid Ready



/ Arc Fault Circuit Interruption





Specifications: FRONIUS Primo 5kW Solar Inverter (Int)

INPUT DATA	
Max. input current (I _{dc} max 1 / I _{dc} max 2)	12.0 A / 12.0 A
Max. array short circuit current (MPP1/MPP2)	18.0 A / 18.0 A
Min. input voltage (U _{dc} min)	80 V
Feed-in start voltage (U _{dc} start)	80 V
Nominal input voltage (U _{dc,r})	700 V
Max. input voltage (U _{dc} max)	1,000 V
Usable MPP voltage range (U _{mpp} min – U _{mpp} max)	80 V - 800 V
MPP voltage range at nominal power (U _{mpp} min – U _{mpp} max)	240 - 800 V
Number of MPP trackers	2
Number of DC connections	2 + 2

OUTPUT DATA	
Grid connection (voltage range)	180 V - 270 V
AC nominal output (P _{ac,r})	5,000 W
Max. output power	5,000 VA
AC output current (I _{ac} nom)	21.7 A
Frequency (f _r)	50 / 60 Hz
Frequency range (f _{min} – f _{max})	45 - 65 Hz
Total harmonic distortion	< 5.0 %
Power factor (cos φ _{ac,r})	0.85 - 1 ind. / cap.

GENERAL DATA	
Dimensions (height x width x depth)	645 x 431 x 204 mm
Weight	21.5 kg
Degree of protection	IP 65
Ambient temperature range	-40 - +55 °C
Permitted humidity	0 - 100 %
Max. altitude	4,000 m
Max total PV array size (P _{dc} max)	4.5kW
Cooling	Regulated air cooling
Installation	Indoor and outdoor
Inverter design	Transformer less

WARRANTY	
Warranty following registration via FRONIUS Solarweb portal	10 years

EFFICIENCY	
Max. efficiency	97.8%
MPP adaptation efficiency	> 99.9 %

PROTECTIVE DEVICES	
DC insulation measurement	Yes
Overload behaviour	Operating point shift.
DC disconnect, Power limitation and Reverse polarity protection	Yes