

## Primo 5.0-1 : 5kW Solar Inverter by Fronius



Price: CAD \$2,299.00

**SKU:** FRPRIMO-5

**Product Categories:** [String Inverters: 3-9kW](#), [Inverters](#), [Shop](#)

**Product Tags:** [208](#), [208v](#), [240](#), [240v](#), [5.0-1](#), [canada](#), [communications](#), [data manager](#), [datamanager](#), [fronius](#), [fronius primo](#), [fronius primo 5.0](#), [fronius primo 5.0-1](#), [fronius primo canada](#), [full](#), [lite](#), [primo 5.0-1](#), [primo lite](#)

**Product Page:**

<https://www.modernoutpost.com/product/primo-5-0-1-208-240-full-solar-inverter-by-fronius/>

### Product Summary

The Primo 5.0-1 208/240 Full Solar Inverter by Fronius. The Fronius Primo inverter series has been specially developed for the demands of the North American market. Available power capacities range from 3.8 to 15 kW. The single-phase, transformerless device is the perfect inverter for private households. Its innovative

SuperFlex Design provides maximum flexibility in system design, while the SnapINverter mounting system makes installation and maintenance as easy as possible.

## Product Description

This is the popular Primo 5.0-1 208/240 Solar Inverter by Fronius. The Fronius Primo inverter series has been specially developed for the demands of the North American market. This single-phase, transformerless device is the perfect inverter for private households. Its innovative SuperFlex Design provides maximum flexibility in system design, while the SnapINverter mounting system makes installation and maintenance as easy as possible.

This is the 'Advanced' model, offering both Data Manager communication package and AFCI (Arc Fault) protection. The Data Manager allows WLAN connectivity, energy management, several interfaces and much more. Fronius Primo is a communicative inverter for home owners.

We no longer offer the 'Lite' model which featured Arc Fault protection, but not the Data Manager functionality.

Fronius inverters are efficient and reliable and form the indispensable heart of every photovoltaic system. Power categories ranging from 1.5 to 27.0 kW guarantee suitability for virtually any system size – from a family home to a large-scale system.

### Fronius Primo 5.0-1 Technical Specifications

#### **INPUT DATA**

Number of MPPT channels : 2

Recommended PV Array Power (kWp) : 4.0 - 7.8 kWp

Max. usable input current : 18.0 / 18.0 A

Max. usable input current total (MPPT1 + MPPT2) : 36 A

Max. array short circuit current ( $1.5 \cdot I_{max}$ ) : 27 / 27 A

Nominal input voltage : 420 V

Operating voltage range : 80 - 1000 V

MPP Voltage Range : 240 - 800 V

Max. input voltage : 1000 V

### **OUTPUT DATA**

Max. output power @ 240 V : 5000 VA

Max. output power @ 208 V : 5000 VA

Output configuration : 1~ NPE 208 / 240 V

Frequency range : 45 - 66 Hz

Nominal operating frequency : 60 Hz

Total harmonic distortion < 5 %

Power factor range : 0.85 - 1 ind./cap.

Max. continuous output current @ 240 V : 20.8 A

Max. continuous output current @ 208 V : 24.0 A

OCPD/AC breaker size (240V) : 30 A

OCPD/AC breaker size (208V) : 30 A

Max. efficiency : 96.9 %

CEC efficiency @ 240V : 95.5 %

CEC efficiency @ 208V : 95.5 %

### **GENERAL DATA**

Dimension (width) : 429 mm

Dimension (height) : 627 mm

Dimension (depth) : 206 mm

Weight : 21.5 kg

Protection class : NEMA 4X

Night time consumption : < 1 W

Inverter topology : Transformerless

Cooling : Variable speed fan

Elevation : 4000 m (13120 ft) with a max. input voltage of 1000 V

### **Certificates and compliance...**

UL 1741-2010 Second Edition (incl. UL1741 Supplement SA 2016-09 for California Rule 21 and Hawaiian Electric Code Rule 14H), UL1998 (for functions: AFCI, RCMU and isolation monitoring), IEEE 1547-2003, IEEE 1547.1-2003, ANSI/IEEE C62.41,

FCC Part 15 A & B, NEC 2017 Article 690, C22. 2 No. 107.1-16, UL1699B Issue 2 -2013, CSA TIL M-07 Issue 1 – 2013

DC connection terminals 4x DC+ and 4x DC- screw terminals for copper (solid/stranded/fine stranded) or aluminium (solid/stranded)

AC connection terminals : Screw terminals 12 - 6 AWG

Revenue Grade Metering : Optional (ANSI C12.1 accuracy)

## **PROTECTION DEVICES**

DC reverse polarity protection : Yes

Anti islanding : internal; in accordance with UL 1741-2016-09, IEEE 1547-2003 and NEC 2017

Over temperature protection : Output power derating / Active cooling

AFCI : Yes

Rapid shutdown compliant : Yes (according to NEC 2014)

Ground fault protection with isolation monitor interrupter : Yes

DC disconnect : Yes

## **INTERFACES (Refer to Data Manager Documentation)**

Wi-Fi / Ethernet LAN Wireless standard 802.11 b/g/n / Fronius Solar.web, SunSpec

Modbus TCP, JSON

USB (A socket) Datalogging and inverter update possible via USB

2x RS422 (RJ45 socket) Fronius Solar Net

Datalogger and webserver Included

Serial RS485 SunSpec Modbus RTU

6 inputs and 4 digital I/Os Load management; signalling, multipurpose I/O

Manuals & Downloads

[Fronius Primo 5.0-1 Data Sheet](#) [Fronius Primo 5.0-1 Installation Manual](#) [Fronius Primo 5.0-1 User Manual](#)]

## **Product Attributes**

- Dimensions: 65 &times; 45 &times; 25 cm
- Weight: 22 kg

- Model: Advanced, Lite