



Fronius Symo

inverter Fronius Symo from 10kW to 24kW power range



Fronius Symo is the ideal compact three-phase inverter for commercial applications. Its dual maximum power point tracking, high maximum

System voltage, wide input voltage range and unrestricted use indoors and ensures maximum flexibility in PV system design.

The Fronius Symo features include the SnapNverter mounting system, allowing for secure and convenient installation and field servicing.

The Fronius Symo also have: arc fault protection, integrated wireless monitoring, and SunSpec Modbus interfaces for seamless monitoring and datalogging via Fronius' online and mobile platform, Fronius Solar.web.

This makes the Fronius Symo one of the most communicative, efficient and streamlined inverters on the market.

FEATURES:

- Field serviceable
- SnapNverter mounting system
- Wireless monitoring
- Design flexibility
- Dynamic peak manager
- Arc Fault Circuit Interruption



INPUT DATA

Max. permitted PV power
 Max. usable input current (MPPT 1/MPPT 2)
 Max. usable input current total (MPPT 1+MPPT 2)
 Max. admissible input current (MPPT 1/MPPT 2)
 Max. admissible input current total (MPPT 1+MPPT 2)
 Integrated DC string fuse holders
 MPP voltage range
 Operating voltage range
 Max. input voltage
 Nominal input voltage
 Admissible conductor size DC
 Number of MPPT

TECHNICAL DATA FRONIUS SYMO

	10.0-3 208/240	12.0-3 208/240	15.0-3 208	10.0-3 480	15.0-3 480	20.0-3 480	24.0-3 480
Max. permitted PV power	15.00 kW	18.00 kW	22.50 kW	15.00 kW	22.50 kW	30.00 kW	36.00 kW
Max. usable input current (MPPT 1/MPPT 2)	┌ 25.0A / 16.5A ┐		50.0A	25.0A / 16.5A		┌ 33.0A / 25.0A ┐	
Max. usable input current total (MPPT 1+MPPT 2)	┌ 41.5A ┐		50.0A	41.5A		┌ 51A ┐	
Max. admissible input current (MPPT 1/MPPT 2)	┌ 37.5A / 24.8A ┐		750.0A	37.5A / 24.8A		┌ 49.5A / 37.5A ┐	
Max. admissible input current total (MPPT 1+MPPT 2)	┌ 62.2A ┐		75.0A (1MPPT)	62.2A		┌ 76.5A ┐	
Integrated DC string fuse holders	┌ None ┐		Integrated: 6- and 6+	None		┌ Optional: 6- and 6+ ┐	
MPP voltage range	300 - 500 V	300 - 500 V	325 - 850 V	300 - 800 V	350 - 800 V	450 - 800 V	500 - 800 V
Operating voltage range	200 - 600 V	200 - 600 V	325 - 1000 V	200 - 1000 V		┌ 200 - 1000 V ┐	
Max. input voltage	600 V	600 V	1000 V	1000 V		┌ 1000 V ┐	
Nominal input voltage	208 V 240 V 480 V	350 V 370 V N/A	350 V 370 V N/A	325 V N/A N/A	N/A N/A 675 V	N/A N/A 685 V	N/A N/A 710 V 720 V
Admissible conductor size DC	┌ AWG 14 - AWG 6 copper direct, AWG 6 aluminium direct, AWG 4 copper or aluminium with input combiner ┐						
Number of MPPT	┌ 2 ┐		1	┌ 2 ┐			

OUTPUT DATA

	10.0-3 208/240	12.0-3 208/240	15.0-3 208	10.0-3 480	15.0-3 480	20.0-3 480	24.0-3 480
Max. output power	208 V 9,995 VA 240 V 9,995 VA 480 V N/A	11,995 VA 11,995 VA N/A	15,000 VA N/A N/A	N/A N/A 9,995 VA	N/A N/A 14,995 VA	N/A N/A 19,995 VA	N/A N/A 23,995 VA
Max. output fault current / Duration	┌ 43.1A RMS / 158.4ms ┐		67.7 A RMS / 153.0ms	43.1A RMS / 158.4ms	┌ 30.9A RMS / 150.4ms ┐		
Max. continuous output current	208 V 27.7 A 240 V 24.0 A 480 V N/A	33.3 A 28.9 A N/A	41.6 A N/A N/A	N/A N/A 12.0 A	N/A N/A 18.0 A	N/A N/A 24.0 A	N/A N/A 28.9 A
Recommended OCPD/AC breaker size	208 V 35 A 240 V 30 A 480 V N/A	45 A 40 A N/A	60 A N/A N/A	N/A N/A 15 A	N/A N/A 25 A	N/A N/A 30 A	N/A N/A 40 A
Max. Efficiency	97.0%			97.3%	98.1%		
CEC Efficiency	208 V 96.5% 240 V 96.5% 480 V N/A	96.5% 96.5% N/A	96.5% N/A N/A	N/A N/A 96.5%	N/A N/A 97.0%	N/A N/A 97.5%	N/A N/A 97.5%
Admissible conductor size AC	AWG 14 - AWG 6						
Grid connection	┌ 208 / 240 V ┐		208 V	┌ 480 V Delta +N** ┐			
Frequency	┌ 60 Hz ┐			┌ 60 Hz ┐			
Total harmonic distortion	┌ < 1.75 % ┐		< 3.5%	┌ < 1.75 % ┐			
Power factor (cos φac,r)	┌ 0 - 1 ind./cap. ┐			┌ 0 ind./cap. ┐			