

Fronius Symo Advanced Inverters 10-24 kW

Specification Sheet

Product Number



FRONIUS SYMO ADVANCED

Featuring models ranging from 10 kW to 24 kW, the Fronius Symo Advanced is the ideal inverter for commercial applications. The new Advanced versions combine the benefits of the Fronius Symo with additional features zero tilt mounting, light weight and field service-ability.

INPUT DATA

Number of MPPT	2
Recommended PV Power (kWp)	8.0-13.0 kWp
Max. usable input current	41.5 A
Max. usable input current total (MPPT1 + MPPT2)	41.5 A
Max. array short circuit current (1.5 *Imax)	62.2 A
Nominal input voltage	350 V
Operating voltage range	200-600 V
MPP Voltage Range	300-500 V
Max. input voltage (Udc max)	600 V

OUTPUT DATA

	208V	240V	277V	480V
Max. Output Power	9995W	995W	NA	NA
Output Configuration	3 ~ NPE 208-240 V			
Frequency Range	45-66 Hz			
Nominal Operating Frequency	60 Hz			
Total Harmonic distortion	< 1.5 %			
Power factor range	0-1 ind./cap.			
Max. continuous output current	27.7 A	24.0 A	NA	NA
OCPD/AC breaker Size	35 A			NA
Max. efficiency	97 %			
CEC efficiency	96.5%			96.5%



**SnapInverter
mounting system**



Wireless monitoring



**Open Data
Connection**



Smart Grid Ready



**Arc Fault Circuit
Interruption**





Fronius Symo Advanced Invertors 10-24 kW Specification Sheet

General Data	Fronius Symo 10-24
Dimensions (wxhxd)	20.1x28.5x8.9 in. 51.1x72.4x20.6 cm
Weight	41.68 kg
Degree of protection	NEMA 4X
Night time consumption	< 1 W
Invertor topology	Transformerless
Cooling	Controlled forced ventilation, variable speed fan
Installation	Indoor and outdoor installation, tilt form 0-90 degrees (Fronius Shade Cover required for installation angles less than 15 degrees)
Ambient operating temperature range	-40 to 140 F / -40 to 60 C
Permitted humidity	0 - 100%
Elevation	2000 m (6562ft) with a max. input voltage of 1000V / 3400 m (11155ft) with a max. input voltage of 850 V
DC connection terminals	6x DC+, 6x DC- screw terminals for copper (solid / stranded / fine stranded) or aluminium (solid / stranded)
AC connection terminals	Screw terminals 14 - 6 AWG
Revenue Grade Metering	Optional (ANSI C12.1 accuracy)
Certificates and compliance with standards	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 1547a-2014, 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
Protective Devices	Standard with all Primo Models
Anti Islanding	internal; in accordance with UL 1741-2010, IEEE 1547-2003 and NEC
Ground fault protection with isolation monitor interrupter	Yes
DC disconnect	Yes
DC reverse polarity protection	Yes
AFCI	Yes
Over temperature protection	Output power derating/Active cooling
Interfaces	Available with all Fronius Primo Models
USB (A socket)	Datalogging and invertor update possible via USB
2x RS422 (RJ45 socket)	Fronius Solar Net, interface protocol, Wifi / Ethernet / Serial / Datalogger and webserver Wireless standar 802.11 b/g/n/Fronius Solar.web, SunSpec Modbus TCP, JSON / Sunspec Modbus RTU
Power Line Communication (PLC)	Yes - SunSpec Rapid Shutdown communication standard
6 inputs or 4 digital inputs/outputs	External relay controls