

# FRONIUS PV-SYSTEM CONTROLLER AND ACCESSORIES

/ Save fuel with Fronius PV-Genset solutions



/ Integrating PV-plants into genset driven grids requires fast and reliable control of the entire system. The Fronius PV-System Controller measures all power flows in the system and controls the PV-power in an optimal way. The PV-System Controller can also be used to balance the self-consumption and limit the exchange with the main grid to a defined value.

## TECHNICAL DATA FRONIUS PV-SYSTEM CONTROLLER

AC POWER SUPPLY	
AC voltage	230 V <sub>AC</sub> (80 % - 115 %)
Frequency	45 - 65 Hz
Consumption	6 VA

DC POWER SUPPLY	
Rated voltage DC	12 V
Consumption	6 W

ACCURACY CLASS	
Power measurement accuracy	0.5 %
Accuracy energy measurement	1.0 %

VOLTAGE MEASUREMENT	
Measuring range	10 - 300 V
Frequency	45 - 65 Hz

CURRENT MEASUREMENT	
Nominal current	Secondary 250 mA
Maximum current	Secondary 300 mA

INTERFACES	
User interface	Ethernet
Communications with the inverter	RS232 / RS485 / RS422
Communications with other equipment	RS485
Display	2 lines of 20 characters
Light indicators	6 LEDs
Keyboard	4 silicone keys
Control outputs	4 potential free relays, 6 A

GENERAL DATA	
Dimensions (height x width x depth)	90 x 105 x 70 mm 6 modules DIN Rail
Weight	250 g
Working temperature	-25 - +70 °C
Storage temperature	-40 - +85 °C
Humidity	Max. 95 % without condensation
Certificates and compliance with standards	Electrical safety for measurement and control devices IEC 61010-1:2010, electromagnetic compatibility IEC 61000-6-2:2005, IEC 61000-6-4:2011

## ACCESSORIES

### FRONIUS GENSET MEASUREMENT EXTENSION

/ To implement additional safety with rapid shut down in case of genset back-feed or in systems with multiple gensets the Fronius Genset Measurement Extension is to be used.



POWER SUPPLY CIRCUIT	
AC voltage	230 V <sub>AC</sub> (-15 % - +10%)
Consumption	3 VA
Frequency	45 - 65 Hz

CLASS / ACCURACY	
Power rating	1 % ± 1 digit

METERING CIRCUIT	
Nominal voltage	300 V <sub>AC</sub> (ph-n) / 520 V <sub>AC</sub> (ph-ph)
Frequency	45 - 65 Hz
Transformer	250 mA

GENERAL DATA	
Dimensions (height x width x depth)	85.0 x 52.5 x 67.9 mm (3 modules)
Weight	210 g
Degree of protection	Embedded equipment: IP 41 Terminals: IP 20
Operating temperature	-10 - +50 °C
Relative humidity (non-condensing)	5 - 95 %
Max. altitude	2,000 m

### FRONIUS CURRENT SENSORS

/ The right choice of current transducers for maximum accuracy suitable for the Fronius PV-Genset solution.



TECHNICAL DATA	3-PH (40 - 170 KVA 3-PH)	1-PH (150 - 1,000 KVA 3-PH)	1-PH (500 - 1,400 KVA 3-PH)
Nominal current	250 A	500 / 1,000 / 1,500 A	1,000 / 1,500 / 2,000 A
Class 0.5 burden		< 0.25 VA	
Internal diameter	26 mm	55 mm	80 mm
Secondary current		Secondary 250 mA	

/ Perfect Welding / Solar Energy / Perfect Charging

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/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,700 employees worldwide, we shift the limits of what's possible - our record of over 800 granted patents is testimony to this. While others progress step by step, we innovate in leaps and bounds. Just as we've always done. The responsible use of our resources forms the basis of our corporate policy.

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