

Fronius Argeno



Product strengths

- 01 Maximum energy
- 02 Comprehensive protection
- 03 European quality
- 04 First-class service and support

Product strengths

01 Maximum energy

The Fronius Argeno helps you get the most out of every ray of sunshine. With an impressive peak efficiency of up to 99.1% – achieved with cutting-edge silicon carbide technology – conversion losses are reduced to a minimum. This means you get the maximum energy possible out of your PV system and make optimum use of the sun's power.

02 Comprehensive protection

With its integrated and replaceable type 1+2 surge protection devices, the Fronius Argeno is ideally equipped for any PV system. Your data is secure at all times thanks to its certified information security system and European cloud and server locations. Fronius Argeno has protection class IP 66, which means it features unsurpassed protection against external weather influences.

03 European quality

As a family-owned company in its third generation, Fronius has always been committed to strengthening value creation in Europe through local production. The Fronius Argeno is manufactured in the heart of Europe and meets the most stringent quality and safety standards for maximum efficiency and a long service life.

04 First-class service and support

With the Fronius Argeno, you get a first-class inverter as well as first-class service and support. We work closely with installers who have obtained first-class training, including those from our Fronius System Partner Program. Our partners use this expertise as well as state-of-the-art digital tools to ensure your PV system receives superior service and operates at its optimum.



Technical data

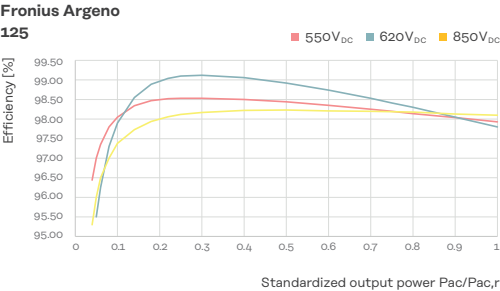
Technical data			Fronius Argono									
			Argono 125									
Input Data	Number of MPP trackers		10									
			PV 1	PV 2	PV 3	PV 4	PV 5	PV 6	PV 7	PV 8	PV 9	PV 10
	Number of DC connections per MPPT		2									
	Max. usable input current per MPPT ($I_{DC\ max, MPPT}$)	A	30									
	Max. usable input current per string ($I_{DC\ max, string}$)	A	20									
	Max. module array short circuit current per MPPT ($I_{sc\ pv, MPPT}$)	A	37,5									
	Max. module array short circuit current per string ($I_{sc\ pv, string}$)	A	25									
	Max. module array short circuit current inverter ($I_{sc\ pv, inverter}$)	A	375									
	Nominal input voltage ($U_{DC,r}$)	V	620									
	DC input voltage range ($U_{DC\ min} - U_{DC\ max}$)	V	200 - 1,100									
	Feed-in start voltage ($U_{DC\ start}$)	V	250									
	Usable MPP voltage range ($U_{mpp\ min} - U_{mpp\ max}$)	V	200 - 1,000									
	Usable MPP voltage range (at rated power) ($U_{mpp\ min} - U_{mpp\ max}$)	V	550 - 850									
	Max. usable DC power - MPPT ($P_{DC\ max, PV}$)	W _{peak}	15,500									
	Max. PV generator power inverter ($P_{PV\ max}$)	W _{peak}	250,000									
	Output Data	AC rated output ($P_{AC,r}$)	W	125,000 @ 400V 120,000 @ 380V								
Max. output power		VA	125,000									
AC output current per phase ($I_{AC, r}$)		A	180.4									
Grid connection ($U_{AC,r}$)		V	3~ (N)PE 400/230									
Frequency (frequency range $f_{min} - f_{max}$)		Hz	50 / 60 (45 - 65)									
Total harmonic distortion		%	< 3									
Power factor ($\cos \varphi_{AC,r}$)			0.80 ind. / cap.									
General Data	Dimensions (height x width x depth)	mm	755 x 1070 x 330									
	Weight inverter	kg	< 90									
	Degree of protection		IP 66									
	Protection class		1									
	Overvoltage category (DC / AC)		2 / 3									
	Night-time consumption	W	4.8									
	Cooling		Active cooling									
	Installation		Wall mounting bracket									
	Ambient temperature range	°C	-25 to +60									
	Permitted humidity	%	0 - 100									
	Noise emissions	db (A)	< 60									
	Max. altitude above sea level	m	3,000									
	Certificates and compliance with standards		VDE4105, VDE 4110, TOR Erzeuger Type A&B + R25, ... IEC 62109 -1 / -2, IEC 61000-6-2 / -4 ... Further certificates on www.fronius.com									

Technical data

Fronius Argeno			
Argeno 125			
Connection technology	AC	Cable cross section	mm²
			50 to 240
		AC conductor material	Al and Cu
		Connection terminals	M10 cable lug
	DC	Cable gland	AC Single-core - M40 (Ø10 – 28 mm) Accessory option 1: AC Multi-core (Ø16 – 61,4 mm) Option 2: AC Daisy Chain ¹ - M40 (Ø10 – 28 mm)
		Connection terminals	Phoenix Contact, tool-less assembly, mating connector included
		DC conductor material	Cu
Efficiency	Max. efficiency	%	99.1
	European efficiency (ηEU)	%	98.7
	MPP-adaptation efficiency	%	> 99.6
Protection devices	DC insulation measurement		Integrated
	DC disconnect		Integrated
	RCMU		Integrated
	Arc fault circuit interrupter (Fronius Arc Guard)		Optional
	Polarity reversal protection		Integrated
	DC/AC surge protection		Type 1+2, replaceable
Interfaces	Ethernet LAN RJ45 Daisy Chain		Fronius Solar.web, Modbus TCP Sunspec
	Static IP LAN RJ45 connection		For commissioning
	Wired Shutdown (WSD)		Integrated
	Datalogger and Webserver		Integrated

¹ Requires AC SPDs type 2 - included in the delivery.

Efficiency



Power derating

