

FRONIUS AGILO

/ The central inverter with the revolutionary transport and installation system



/ Fronius Module Manager



/ PC board replacement concept



/ Ventilation concept



/ Transport technology



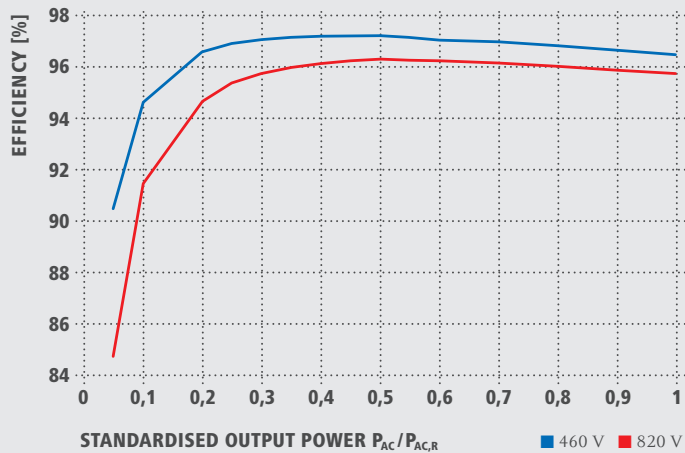
/ As the first central inverter in its performance class that can be completely installed and maintained by the installer, the Fronius Agilo sets new standards. Special heavy-duty castors, its compact design and the ability to replace components on the customer's premises make the Fronius Agilo unique. With a maximum output power of 75 kVA and 100 kVA the Fronius Agilo is particularly suitable for industrial or commercial systems.

TECHNICAL DATA: FRONIUS AGILO

INPUT DATA	FRONIUS AGILO 75.0-3	FRONIUS AGILO 100.0-3
DC maximum power at $\cos \varphi = 1$	78.3 kW	104.4 kW
Max. input current ($I_{dc \max}$)	170.2 A	226.9 A
Min. input voltage ($U_{dc \min}$)		460 V
Feed-in start voltage ($U_{dc \text{ start}}$)		500 V
Nominal input voltage ($U_{dc, r}$)		460 V
Max. input voltage ($U_{dc \max}$)		950 V
MPP voltage range ($U_{mpp \min} - U_{mpp \max}$)		460 V - 820 V
Number of DC inputs		2
OUTPUT DATA	FRONIUS AGILO 75.0-3	FRONIUS AGILO 100.0-3
AC nominal output ($P_{ac, r}$)	75 kW	100 kW *
Max. output power	75 kVA	100 kVA*
Max. output current ($I_{ac \max}$)	114 A	152.9 A
Grid connection ($U_{ac, r}$)		3-NPE 400 V / 230 V
Min. output voltage ($U_{ac \min}$)		180 V
Max. output voltage ($U_{ac \max}$)		270 V
Frequency (f_r)		50 Hz
Frequency range ($f_{\min} - f_{\max}$)		46 Hz - 55 Hz
Distortion factor		< 3 %
Power factor ($\cos \varphi_{ac, r}$)		0.8 - 1 ind. / cap.
GENERAL DATA	FRONIUS AGILO 75.0-3	FRONIUS AGILO 100.0-3
Dimensions (height x width x depth)		1,800 x 1,100 x 700 mm
Weight	750 kg	830 kg
Degree of protection (electronical parts)		IP 30 (IP 54)
Protection class		1
Overvoltage category (DC / AC)		DC 2 / AC 3
Night-time consumption		< 50 W
Inverter concept		50 Hz transformer
Cooling		Regulated air cooling
Installation		Indoor installation
Ambient temperature range		From -20°C - +50°C
Permitted humidity		0 % - 95 %
DC connection technology		V-shape connection lug / V-box terminal clamp (70 - 240 mm ²)
AC connection technology		V-shape connection lug / V-box terminal clamp (35 - 95 mm ²)
Certificates and compliance with standards		IEC 62109-1

* For French market : Agilo 100-0.3 with french set-up has a max. output power of 99.9 kW.

FRONIUS AGILO 100.0-3 EFFICIENCY CURVE



TECHNICAL DATA: FRONIUS AGILO

EFFICIENCY	FRONIUS AGILO 75.0-3	FRONIUS AGILO 100.0-3
Max. efficiency	97.1 %	97.2 %
European efficiency (η_{EU})	96.4 %	96.6 %
η at 5% $P_{ac,r}^{1)}$	89.8 % / 83.4 %	90.5 % / 84.8 %
η at 10% $P_{ac,r}^{1)}$	93.4 % / 89.0 %	94.6 % / 91.5 %
η at 20% $P_{ac,r}^{1)}$	96.0 % / 93.4 %	96.6 % / 94.7 %
η at 25% $P_{ac,r}^{1)}$	96.5 % / 94.9 %	96.9 % / 95.4 %
η at 30% $P_{ac,r}^{1)}$	96.9 % / 95.2 %	97.0 % / 95.7 %
η at 50% $P_{ac,r}^{1)}$	97.1 % / 95.9 %	97.2 % / 96.3 %
η at 75% $P_{ac,r}^{1)}$	96.9 % / 95.9 %	96.9 % / 96.1 %
η at 100% $P_{ac,r}^{1)}$	96.6 % / 95.8 %	96.5 % / 95.7 %
MPP adaptation efficiency	> 99.9 %	

PROTECTIVE EQUIPMENT	FRONIUS AGILO 75.0-3	FRONIUS AGILO 100.0-3
DC insulation measurement	Warning/shutdown adjustable	
Overload behaviour	Operating point shift, power limitation	
DC circuit breaker	Integrated	

INTERFACES	FRONIUS AGILO 75.0-3	FRONIUS AGILO 100.0-3
Two RJ45 sockets (RS422)	Fronius Solar Net interface, interface protocol	

¹⁾ and at $U_{mpp\ min} / U_{mpp\ max}$

/ Battery Charging Systems / Welding Technology / Solar Electronics

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Fronius Australia Pty Ltd.
90-92 Lambeck Drive
Tullamarine VIC 3043
Australia
pv-sales-australia@fronius.com
www.fronius.com.au

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
pv-sales-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
pv@fronius.com
www.fronius.com

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