

# FRONIUS AGILO

/ The central inverter with the revolutionary transport and installation system



/ Fronius Module Manager



/ PC board replacement concept



/ Ventilation concept



/ Transport technology

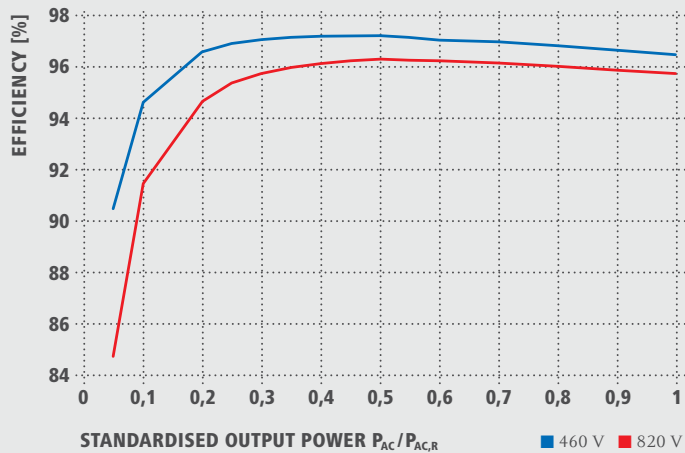


/ As the first central inverter in its performance class that can be completely installed and maintained by the installer, the Fronius Agilo sets new standards. Special heavy-duty castors, its compact design and the ability to replace components on the customer's premises make the Fronius Agilo unique. 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 <sup>2</sup> )
AC connection technology		V-shape connection lug / V-box terminal clamp (35 - 95 mm <sup>2</sup> )
Certificates and compliance with standards		IEC 62109-1

## 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 ( $\eta_{EU}$ )	96.4 %	96.6 %
$\eta$ at 5% $P_{ac,r}^{1)}$	89.8 % / 83.4 %	90.5 % / 84.8 %
$\eta$ at 10% $P_{ac,r}^{1)}$	93.4 % / 89.0 %	94.6 % / 91.5 %
$\eta$ at 20% $P_{ac,r}^{1)}$	96.0 % / 93.4 %	96.6 % / 94.7 %
$\eta$ at 25% $P_{ac,r}^{1)}$	96.5 % / 94.9 %	96.9 % / 95.4 %
$\eta$ at 30% $P_{ac,r}^{1)}$	96.9 % / 95.2 %	97.0 % / 95.7 %
$\eta$ at 50% $P_{ac,r}^{1)}$	97.1 % / 95.9 %	97.2 % / 96.3 %
$\eta$ at 75% $P_{ac,r}^{1)}$	96.9 % / 95.9 %	96.9 % / 96.1 %
$\eta$ 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	

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

/ Battery Charging Systems / Welding Technology / Solar Electronics

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