

FRONIUS AGILO

/ The central inverter with the revolutionary transport and installation system



/ PC board replacement process



/ Transport technology



/ Smart Grid Ready



/ 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

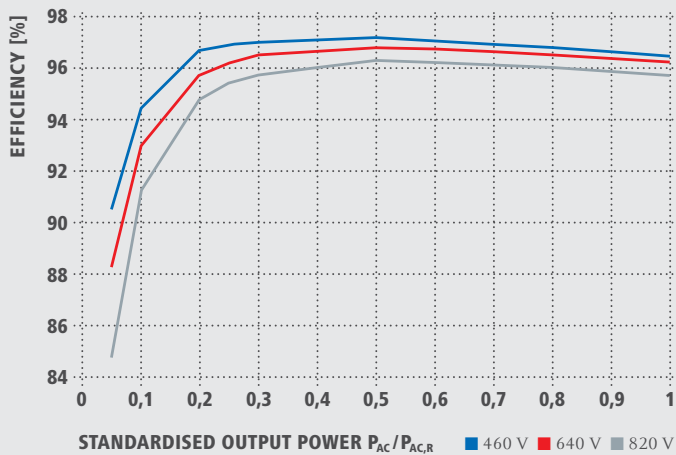
INPUT DATA	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
DC maximum power at $\cos \varphi = 1$		78.1 kW		104.5 kW
Max. input current ($I_{dc \max}$)		170.0 A		227.0 A
Max. array short circuit current		255 A		340.5 A
Min. input voltage ($U_{dc \min}$)			460 V	
Feed-in start voltage ($U_{dc \text{ start}}$)			475 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			4	

OUTPUT DATA	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
AC nominal output ($P_{ac,r}$)		75 kW		100 kW
Max. output power		75 kVA		100 kVA
Max. output current ($I_{ac \max}$)		114.4 A		152.6 A
Grid connection ($U_{ac,r}$)			3-NPE 400 V / 230 V	
Min. output voltage ($U_{ac \min}$)			170 V	
Max. output voltage ($U_{ac \max}$)			270 V	
Frequency (f_r)			50 Hz / 60 Hz	
Frequency range ($f_{\min} - f_{\max}$)			45 - 65 Hz	
Distortion factor			< 3 %	
Power factor ($\cos \varphi_{ac,r}$)			0.8 - 1 ind. / cap.	

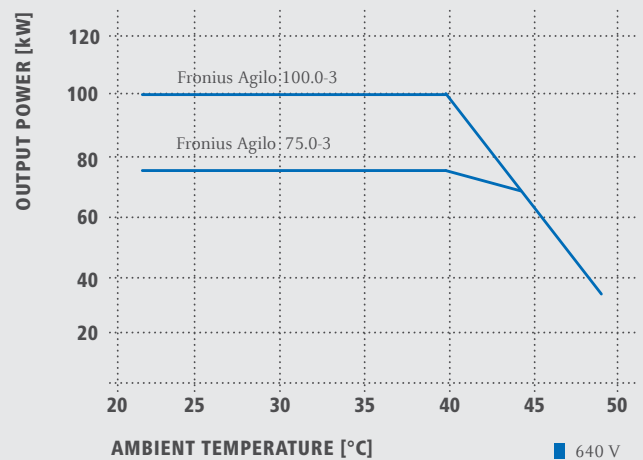
GENERAL DATA	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
Dimensions (height x width x depth)	1,884 x 1,100 x 700 mm	1,914 x 1,204 x 862 mm	1,884 x 1,100 x 700 mm	1,914 x 1,204 x 862 mm
Weight	760 kg	732 kg	834 kg	806 kg
Degree of protection (electronical parts)	IP 30 (IP 54)	IP 44 (IP 55)	IP 30 (IP 54)	IP 44 (IP 55)
Protection class	1			
Overvoltage category (DC / AC)	DC 2 / AC 3			
Night-time consumption	< 36 W			
Inverter concept	50 Hz transformer			
Cooling	Regulated air cooling			
Installation	Indoor installation	Outdoor installation	Indoor installation	Outdoor installation
Ambient temperature range	-20 - +50 °C	-25 - +55 °C	-20 - +50 °C	-25 - +55 °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, IEC 62109-2, VDE AR N 4105, Generating systems on the medium-voltage network (BDEW), G59, Network connection systems for Denmark (>75 A), ÖVE / ÖNORM E 8001-4-712			

Further information regarding the availability of the inverters in your country can be found at www.fronius.com.

FRONIUS AGILO 100.0-3 EFFICIENCY CURVE



FRONIUS AGILO TEMPERATURE DERATING



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EFFICIENCY	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
Max. efficiency	97.3 %		97.2 %	
European efficiency (η_{EU})	96.7 %		96.6 %	
η at 5 % $P_{ac,r}^{1)}$	90.6 / 87.2 / 84.4 %		90.5 / 88.3 / 84.8 %	
η at 10 % $P_{ac,r}^{1)}$	94.7 / 92.8 / 91.1 %		94.6 / 93.2 / 91.5 %	
η at 20 % $P_{ac,r}^{1)}$	96.7 / 95.6 / 94.7 %		96.6 / 95.7 / 94.7 %	
η at 25 % $P_{ac,r}^{1)}$	97.0 / 96.1 / 95.3 %		96.9 / 96.2 / 95.4 %	
η at 30 % $P_{ac,r}^{1)}$	97.1 / 96.4 / 95.7 %		97.0 / 96.5 / 95.7 %	
η at 50 % $P_{ac,r}^{1)}$	97.3 / 96.8 / 96.3 %		97.2 / 96.8 / 96.3 %	
η at 75 % $P_{ac,r}^{1)}$	97.1 / 96.7 / 96.2 %		96.9 / 96.6 / 96.1 %	
η at 100 % $P_{ac,r}^{1)}$	96.7 / 96.4 / 96.0 %		96.5 / 96.2 / 95.7 %	
MPP adaptation efficiency	> 99.9 %			
PROTECTIVE EQUIPMENT	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
DC insulation measurement	Warning/shutdown adjustable			
Overload behaviour	Operating point shift, power limitation			
DC circuit breaker	Integrated			
INTERFACES	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
2x RS422 (RJ45 socket)	Fronius Solar Net, interface protocol			

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

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/ Battery Charging Systems / Welding Technology / Solar Electronics

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS.

/ Whether Battery Charging Systems, Welding Technology or Solar Electronics - our goal is clearly defined: to be the technology and quality leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our more than 850 active patents are testimony to this. While others progress step by step, we innovate in leaps and bounds. Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com



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