

# 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 kW and 100 kVA the Fronius Agilo is particularly suitable for industrial or commercial systems.

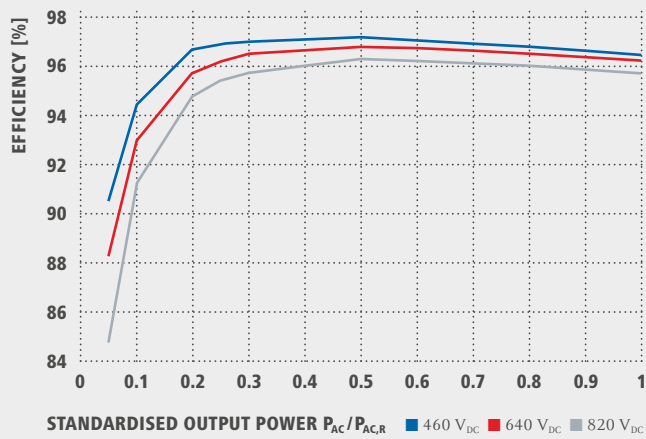
## TECHNICAL DATA: FRONIUS AGILO

INPUT DATA	AGILO 75.0-3	AGILO 75.0-3 OUTDOOR	AGILO 100.0-3	AGILO 100.0-3 OUTDOOR
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 ( $U_{dc\ start}$ )			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 MPP tracker			1	
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 (voltage range)			3-NPE 400 V / 230 V (+17% / -25 %)	
Frequency (Frequency range)			50 Hz / 60 Hz (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 %	
Max. altitude			2,000m (unrestricted / restricted voltage range)	
DC connection technology		V-shape connection lug / V-box terminal clamp (70 - 240 mm <sup>2</sup> )		
AC connection technology Agilo indoor		V-shape connection lug / V-box terminal clamp (35 - 95 mm <sup>2</sup> )		
AC connection technology Agilo outdoor		V-shape connection lug / V-box terminal clamp (35 - 240 mm <sup>2</sup> )		
Certificates and compliance with standards	IEC 62109-1, IEC 62109-2, VDE AR N 4105, Generating systems on the medium-voltage network (BDEW) <sup>1)</sup> , G59, Network connection systems for Denmark (>75 A), ÖVE / ÖNORM E 8001-4-712			

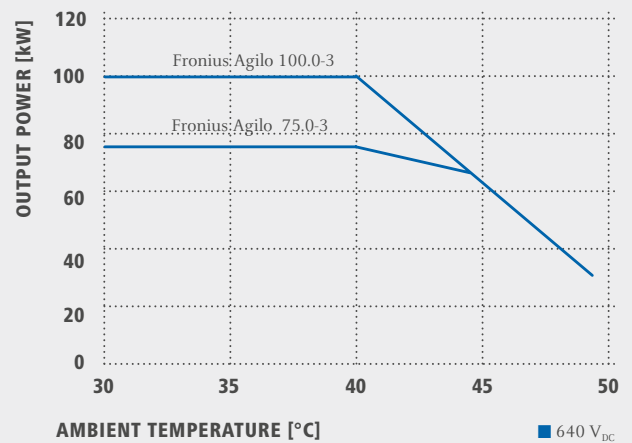
<sup>1)</sup> This applies to Fronius Agilo 100.0-3 and Fronius Agilo 100.0-3 Outdoor.

Further information regarding the availability of the inverters in your country can be found at [www.fronius.com](http://www.fronius.com).

## FRONIUS AGILO 100.0-3 EFFICIENCY CURVE



## FRONIUS AGILO TEMPERATURE DERATING



## TECHNICAL DATA: FRONIUS AGILO

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 ( $\eta_{EU}$ )	96.7 %		96.6 %	
$\eta$ at 5 % $P_{Ac,r}^{1)}$	90.6 / 84.4 %		90.5 / 84.8 %	
$\eta$ at 10 % $P_{Ac,r}^{1)}$	94.7 / 91.1 %		94.6 / 91.5 %	
$\eta$ at 20 % $P_{Ac,r}^{1)}$	96.7 / 94.7 %		96.6 / 94.7 %	
$\eta$ at 25 % $P_{Ac,r}^{1)}$	97.0 / 95.3 %		96.9 / 95.4 %	
$\eta$ at 30 % $P_{Ac,r}^{1)}$	97.1 / 95.7 %		97.0 / 95.7 %	
$\eta$ at 50 % $P_{Ac,r}^{1)}$	97.3 / 96.3 %		97.2 / 96.3 %	
$\eta$ at 75 % $P_{Ac,r}^{1)}$	97.1 / 96.2 %		96.9 / 96.1 %	
$\eta$ at 100 % $P_{Ac,r}^{1)}$	96.7 / 96.0 %		96.5 / 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			
Optional with Fronius Datamanager Box 2.0:				
WLAN / Ethernet LAN	Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON)			
6 inputs or 4 digital in/out	Interface to ripple control receiver			
Datalogger and Webservice	Included			
RS-485	Modbus RTU SunSpec or meter connection			

<sup>1)</sup> And at  $U_{mpp\ min} / U_{dc,r} / U_{mpp\ max}$  Further information regarding the availability of the inverters in your country can be found at [www.fronius.com](http://www.fronius.com).

/ Perfect Welding / Solar Energy / Perfect Charging

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Further information about all Fronius products and our global sales partners and representatives can be found at [www.fronius.com](http://www.fronius.com)



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