

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

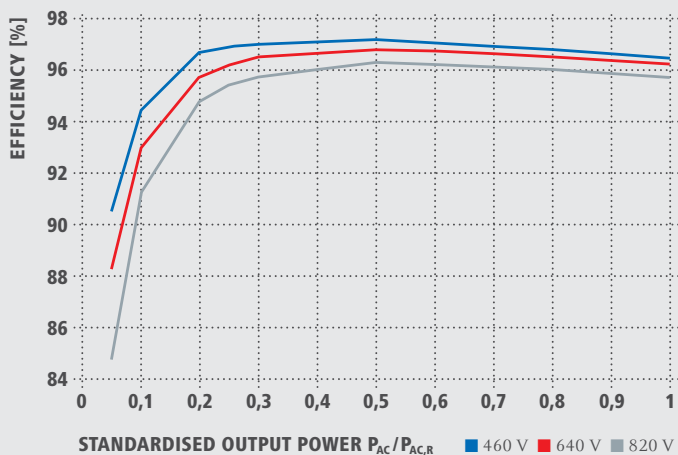
| INPUT DATA | AGILO 75.0-3 | AGILO 75.0-3 OUTDOOR | AGILO 100.0-3 | AGILO 100.0-3 OUTDOOR |
|---|--------------|----------------------|---------------|-----------------------|
| DC maximum power at $\cos \varphi = 1$ | | 78.1 kW | | 104.5 kW |
| Max. input current ($I_{dc \max}$) | | 170.0 A | | 227.0 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. | |

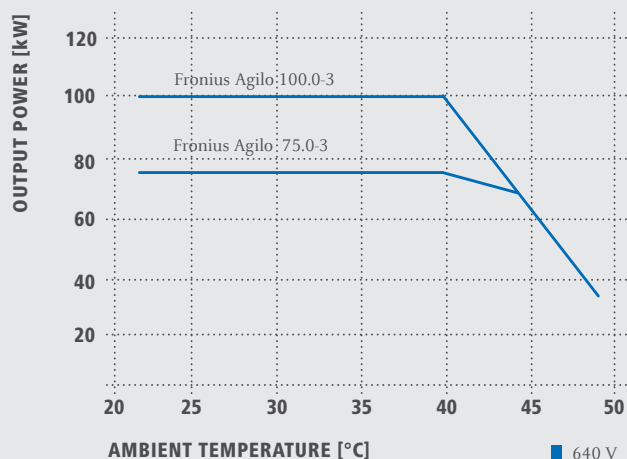
| GENERAL DATA | AGILO 75.0-3 | AGILO 75.0-3 OUTDOOR | AGILO 100.0-3 | AGILO 100.0-3 OUTDOOR |
|--|---|------------------------|------------------------|------------------------|
| Dimensions (height x width x depth) | 1,884 x 1,100 x 700 mm | 1,914 x 1,204 x 862 mm | 1,884 x 1,100 x 700 mm | 1,914 x 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



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 (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

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