

FRONIUS AGILO TL

/ The compact central inverter for straightforward installation, easy maintenance and maximum yields.



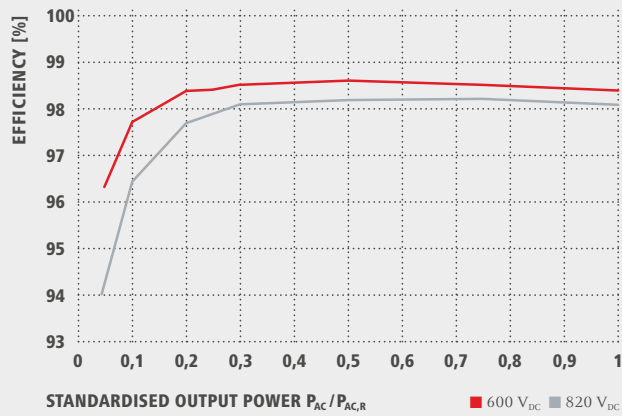
/ The Fronius Agilo TL in the 360 kVA and 460 kVA power categories is a powerful central inverter for large-scale systems. Impressively low installation and operating costs are delivered through the compact dimensions and clever system design inherent to this inverter series. Furthermore, the Fronius Agilo TL is the only inverter series in its power category that can be fully installed and maintained by the installer. Efficient, robust and a long service life - all in one device.

TECHNICAL DATA FRONIUS AGILO TL INDOOR / OUTDOOR

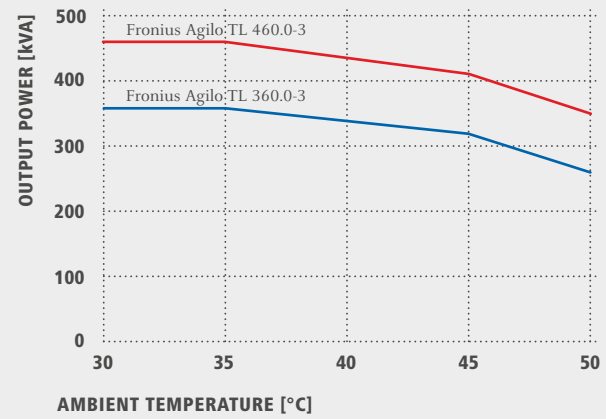
INPUT DATA	AGILO TL 360.0-3	AGILO TL 460.0-3
Max. input current ($I_{dc\ max}$)	726 A	780 A
Min. input voltage ($U_{dc\ min}$)	505 V	600 V
Max. array short circuit current	1,090 A	1,150 A
Feed-in start voltage ($U_{dc\ start}$)	530 V	625 V
Nominal input voltage ($U_{dc,r}$)	505 V	600 V
Max. input voltage ($U_{dc\ max}$)		1,000 V
MPP voltage range ($U_{mpp\ min} - U_{mpp\ max}$)	505 - 820 V	600 - 820 V
Number MPP-Tracker		1
Number of DC connections		6
OUTPUT DATA	AGILO TL 360.0-3	AGILO TL 460.0-3
AC nominal output ($P_{ac,r}$)	360 kVA	460 kVA
Max. output power (up to 35 °C ambient temperature)	360 kVA	460 kVA
Max. output current ($I_{ac\ max}$)	630 A	665 A
Grid connection (Output voltage)	3 - 330 V (+30 % / -15 %)	3 - 400 V (+11 % / -30 %)
Frequency (Frequency range)		50 Hz / 60 Hz (45 - 65 Hz)
Total harmonic distortion		< 3 %
Power factor ($\cos \phi_{ac,r}$)		0.8 - 1 ind. / cap. ¹⁾
GENERAL DATA	AGILO TL 360.0-3	AGILO TL 460.0-3
Dimensions (height x width x depth)	1,970 x 1,150 x 775 mm (2,230 x 1,150 x 1,055 mm) ²⁾	
Weight	615 kg (660 kg) ²⁾	
Degree of protection Agilo TL Indoor (electronics compartment)	IP 40 (IP 55)	
Degree of protection Agilo TL Outdoor (electronics compartment)	IP 44 (IP 55)	
Protection class	1	
Overvoltage category (DC / AC)	Type 1 and type 2 integrated	
Inverter design	External transformer, AC parallel connection not possible	
Cooling	Regulated air cooling	
Installation	Indoor and outdoor installation	
Ambient temperature range	-20 °C - +50 °C	
Permitted humidity	95 %	
Max. altitude	3,000 m (> 2,000 m restricted voltage range)	
DC connection technology	Direct terminal lug (V-type terminal) (6x 70 - 240 mm ²) ³⁾	
AC connection technology	2x max. 240 mm ² cable lugs per phase ⁴⁾	
Certificates and compliance with standards	Depends on local regulations	

¹⁾ Depending on country setup ²⁾ This applies to Fronius Agilo TL Outdoor ³⁾ Copper and aluminium are connectable via V-box terminal clamp and V-shape connection lug ⁴⁾ Dielectric strength 1.8 / 3 kV. More information about inverter availability in your country can be found at www.fronius.com.

EFFICIENCY CURVE FRONIUS AGILO TL



DERATING FRONIUS AGILO TL



TECHNICAL DATA FRONIUS AGILO TL INDOOR / OUTDOOR

EFFICIENCY	AGILO TL 360.0-3	AGILO TL 460.0-3
Max. efficiency	98.5 %	98.6 %
Europ. efficiency (η_{EU})	98.3 %	98.4 %
η at 5 % $P_{ac,r}^{(1)}$	96.5 / 92.0 %	96.3 / 94.0 %
η at 10 % $P_{ac,r}^{(1)}$	97.5 / 95.7 %	97.7 / 96.4 %
η at 20 % $P_{ac,r}^{(1)}$	98.3 / 97.2 %	98.4 / 97.7 %
η at 25 % $P_{ac,r}^{(1)}$	98.4 / 97.4 %	98.5 / 97.9 %
η at 30 % $P_{ac,r}^{(1)}$	98.4 / 97.6 %	98.6 / 98.1 %
η at 50 % $P_{ac,r}^{(1)}$	98.5 / 97.9 %	98.6 / 98.2 %
η at 75 % $P_{ac,r}^{(1)}$	98.4 / 97.9 %	98.5 / 98.2 %
η at 100 % $P_{ac,r}^{(1)}$	98.2 / 97.7 %	98.4 / 98.1 %
MPP adaptation efficiency	> 99.9 %	
PROTECTION DEVICES	AGILO TL 360.0-3	AGILO TL 460.0-3
DC insulation measurement	Yes, warning or shutdown ²⁾ at $R_{ISO} < 33.33 \text{ k}\Omega$	
Overload behaviour	Operating point shift, power limitation	
DC disconnecter	Included	
AC switch-disconnector	Included	
INTERFACES	AGILO TL 360.0-3	AGILO TL 460.0-3
2x RS422 (RJ45 socket)	Fronius Solar Net, interface protocol	
Optionally with Fronius Datamanager Box 2.0:		
WLAN / Ethernet LAN	Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON)	
6 inputs and 4 digital inputs/outputs	Interface to ripple control receiver	
Datalogger and web server	Included	
RS-485	Modbus RTU SunSpec or meter connection	

¹⁾ And at $U_{mpp \text{ min}} = U_{dc,r} / U_{mpp \text{ max}}$ ²⁾ Depends on country setup
 Note: Connection to grounded modules is not possible with the Fronius Agilo TL.

/ 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



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