

FRONIUS AGILO TL

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



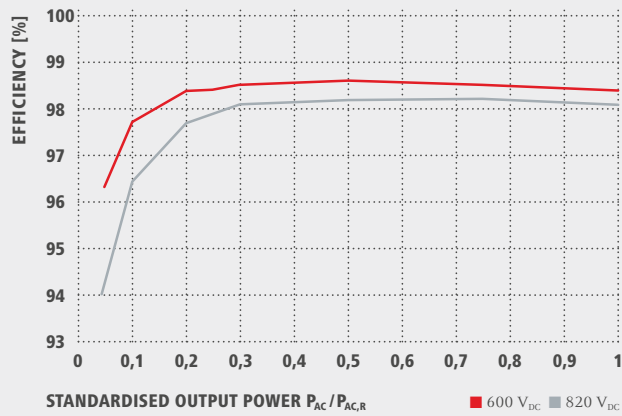
/ The Fronius Agilo TL in the 360 kVA and 460 kVA power categories is a powerful central inverter for large-scale systems. Impressively low installation and operating costs are delivered through the compact dimensions and clever system design inherent to this inverter series. Furthermore, the Fronius 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

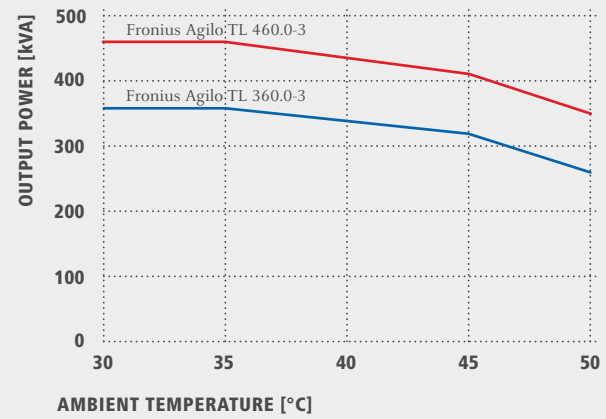
INPUT DATA	AGILO TL 360.0-3	AGILO TL 460.0-3
Max. input current ($I_{dc\ max}$)	726 A	780 A
Min. input voltage ($U_{dc\ min}$)	505 V	600 V
Max. array short circuit current	1,090 A	1,150 A
Feed-in start voltage ($U_{dc\ start}$)	530 V	625 V
Nominal input voltage ($U_{dc,r}$)	505 V	600 V
Max. input voltage ($U_{dc\ max}$)		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

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

/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation 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. Just as we've always done. The responsible use of our resources forms the basis of our corporate policy.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com



v02 Feb 2014 EN

Fronius India Private Limited
 GAT no 312, Nanekarwadi
 Chakan, Taluka - Khed District
 Pune 410501
 India
pv-sales-india@fronius.com
www.fronius.in

Fronius Australia Pty Ltd.
 90-92 Lambeck Drive
 Tullamarine VIC 3043
 Australia
pv-sales-australia@fronius.com
www.fronius.com.au

Fronius UK Limited
 Maidstone Road, Kingston
 Milton Keynes, MK10 0BD
 United Kingdom
pv-sales-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
 Froniusplatz 1
 4600 Wels
 Austria
pv-sales@fronius.com
www.fronius.com

Text and images correspond to the current state of technology at the time of printing. Subject to modifications. All information is without guarantee in spite of careful editing. Liability excluded. Copyright © 2011 Fronius™. All rights reserved. M.06.0152.EN v04 Apr. 2014 as16