



STL inverter series

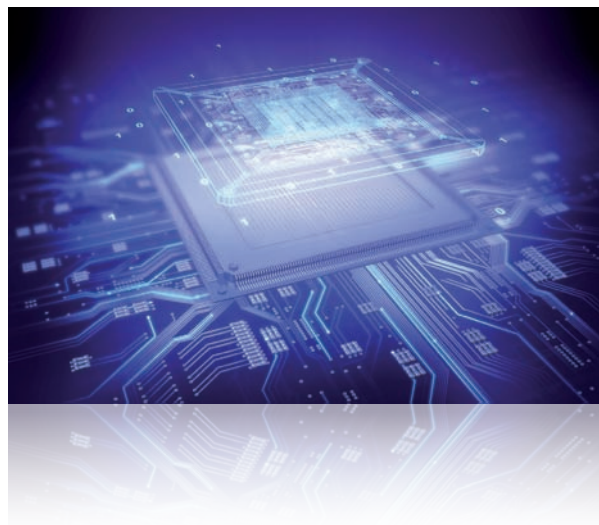
- colour graphic touch screen
- integrated data logger
- USB port on front panel
- indoor / outdoor use

STL inverters: the future is here

advanced technology

These advanced inverters offer superior performance and a lightweight, transformerless design.

STL inverters deliver a **97% efficiency**.



universal communication

STL inverters are equipped with **built-in data logger** to record field operating data. Recorded data can be copied quickly and easily to a USB memory stick. STL inverters can also transmit data over **ETHERNET, Wi-Fi** and **GPRS connections**. This means you can monitor the functioning of your photovoltaic field from a remote position at any time.



all the energy is for you

STL inverters have been developed using carefully selected technical solutions to guarantee excellent efficiency from a lightweight, compact package. A **wide string voltage range** and Selco Energy new **SmartTrack** algorithm allow STL inverters to carry on functioning at full power even in poor sunlight. STL inverters are also available in versions with **2 MPPT trackers**. This makes PV field configuration as flexible as possible by permitting strings to be set up with different azimuths, tilts and dimensions.



1 MPPT	STL 200	STL300	STL400
Inputs (DC)			
Maximum power	2,3 kW	3,4 kW	4,5 kW
Maximum voltage	600 V	600 V	600 V
MPPT voltage range	100 V – 550 V	100 V – 550 V	100 V – 550 V
Start input voltage	115 V	115 V	115 V
Maximum power per MPPT	–	–	–
Maximum power per MPPT - Unbalanced operation	–	–	–
Maximum input current (per MPPT)	11,5 A	17,0 A	22,5 A
Number of MPPT trackers	1	1	1
Maximum number of strings	2	2	2
Outputs (AC)			
Grid connection	Single phase	Single phase	Single phase
Rated power	2,0 kW	3,0 kW	4 kW
Maximum power	2,2 kW	3,3 kW	4,4 kW
Nominal voltage range	195... 264 Vac	195... 264 Vac	195... 264 Vac
Maximum output current	9,6 A	14,3 A	19,1 A
Grid frequency	50 Hz	50 Hz	50 Hz
Cosφ	> 0,995 (adj ± 0,90)	> 0,995 (adj ± 0,90)	> 0,995 (adj ± 0,90)
Efficiency			
Maximum efficiency	97,0 %	97,0 %	97,0 %
European efficiency	96,0 %	96,0 %	96,0 %
Start feeding-in power	10 W	10 W	10 W
Stand-by consumption	< 8 W	< 8 W	< 8 W
Protections			
DC reverse polarity	●	●	●
Integrated RCMU	●	●	●
AC short circuit protection	●	●	●
Class of protection/overvoltage cat.	I / III	I / III	I / III
Grid monitoring	●	●	●
Ground fault monitoring	●	●	●
DC load-disconnecting switch	○	○	○
Equipment			
DC connection (quick)	●	●	●
AC connection (quick)	●	●	●
Interface (USB / CAN bus / Ethernet)	● / ○ / ○	● / ○ / ○	● / ○ / ○
Touch screen graphic display 3.5"	●	●	●
Auxiliary relay	●	●	●
Energy Controller (on-site consumption management)	●	●	●
General data			
Ambient operating temperature	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emissions	< 35 dB	< 35 dB	< 35 dB
Enclosure Protection Rating	IP 65	IP 65	IP 65
Installation	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Warranty and certificates			
Duration (5 / 10 / 15 / 20 years)	● / ○ / ○ / ○	● / ○ / ○ / ○	● / ○ / ○ / ○
Certificates and approvals	CE/CEI 0-21	CE/CEI 0-21	CE/CEI 0-21

● standard — ○ optional

2 MPPT	STL420	STL520	STL620
Inputs (DC)			
Maximum power	4,5 kW	5,3 kW	6,3 kW
Maximum voltage	600 V	600 V	600 V
MPPT voltage range	100 V – 550 V	100 V – 550 V	100 V – 550 V
Start input voltage	115 V	115 V	115 V
Maximum power per MPPT	3,0 kW	3,5 kW	4,0 kW
Maximum power per MPPT - Unbalanced operation	3,0 kW MPPT1 / 1,5 kW MPPT2	3,5 kW MPPT1 / 1,7 kW MPPT2	4,0 kW MPPT1 / 2,3 kW MPPT2
Maximum input current (per MPPT)	15,0 A	17,5 A	20,0 A
Number of MPPT trackers	2	2	2
Maximum number of strings	2 MPPT1 / 1 MPPT2	4	4
Outputs (AC)			
Grid connection	Single phase	Single phase	Single phase
Rated power	4,0 kW	5,0 kW	6,0 kW
Maximum power	4,4 kW	5,0 kW	6,0 kW
Nominal voltage range	195... 264 Vac	195... 264 Vac	195... 264 Vac
Maximum output current	19,1 A	21,7 A	26,1 A
Grid frequency	50 Hz	50 Hz	50 Hz
Cosφ	> 0,995 (adj ± 0,90)	> 0,995 (adj ± 0,90)	> 0,995 (adj ± 0,90)
Efficiency			
Maximum efficiency	97,0 %	97,0 %	97,0 %
European efficiency	96,0 %	96,0 %	96,0 %
Start feeding-in power	10 W	10 W	10 W
Stand-by consumption	< 8 W	< 8 W	< 8 W
Protections			
DC reverse polarity	●	●	●
Integrated RCMU	●	●	●
AC short circuit protection	●	●	●
Class of protection/overvoltage cat.	I / III	I / III	I / III
Grid monitoring	●	●	●
Ground fault monitoring	●	●	●
DC load-disconnecting switch	○	○	○
Equipment			
DC connection (quick)	●	●	●
AC connection (quick)	●	●	●
Interface (USB / CAN bus / Ethernet)	● / ○ / ○	● / ○ / ○	● / ○ / ○
Touch screen graphic display 3.5"	●	●	●
Auxiliary relay	●	●	●
Energy Controller (on-site consumption management)	●	●	●
General data			
Ambient operating temperature	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emissions	< 35 dB	< 35 dB	< 35 dB
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Certificates and approvals	CE/CEI 0-21	CE/CEI 0-21	CE/CEI 0-21

● standard — ○ optional