

Schüco Inverter SGI plus with transformer

The fully equipped Plug&Play inverter in the 02 series



Product range with outstanding features

The Schüco SGI plus 02 inverter series has a sophisticated design. It can be installed quickly and securely, producing high energy outputs with maximum efficiency. The inverters with transformers are available in different performance categories. They are designed for use in PV installations in private homes as well as in large PV installations.

Plug&Play

The Plug&Play design of the SGI plus 02 series ensures a particularly simple, quick and above all secure inverter installation. The integrated DC isolator switch and all connections to the outside with

IP 65 protection rating are key to the Plug&Play concept. The Plug&Play design can be used in the entire Schüco photovoltaic installation thanks to the ready-prepared accessories for AC and DC connections and for communication.

Integrated interfaces

The performance and output values and event notifications for an entire PV installation can be transmitted to the Schüco Sunalyzer data logger via two RS485 interfaces.

Communicating with the Sunalyzer series

The data is transmitted from the Sunalyzer via a modem (analogue, GSM) to a computer

or exported via the Ethernet interface. Data can be sent automatically from the Sunalyzer Web to the Schüco web portal and can then be accessed from anywhere in the world.

Efficient and quiet operation

An advanced circuit configuration guarantees high operational reliability, maximum efficiency level of up to 96% and therefore maximum solar outputs. Internal temperature monitoring and integral temperature-controlling fans ensure continuous operational reliability.

SCHÜCO

Fast installation and secure operation using waterproof connections with ready-prepared accessories



Prepared communication cable



Prefabricated AC cables up to 5 m (three and five core)

Waterproof, corrosion-resistant aluminium casing

The aluminium casing in protection rating IP 65 offers optimum protection against dust and water jets. An air-conditioning membrane on the casing ensures controlled air exchange and preserves the casing seal.

SGI plus series operating displays

The current, voltage, performance and output values for the current date can be read off from the integrated illuminated display. In addition to the display, there are three diodes that show the current operating status at any time.

The Schüco warranty

The Schüco SGI plus 02 series has a 6-year manufacturer's warranty. There is an option to extend this to 10 years or 20 years.

Features and benefits

- Device for Europe: select the language and set the parameters using the display
- Simple, secure and quick installation with Plug&Play
- Integrated DC isolator switch
- Advanced circuit configuration for high operational reliability
- Maximum efficiency and maximum solar yields due to efficiency levels of up to 96%
- Optimum corrosion protection thanks to high-quality aluminium casing in protection rating IP 65
- Long operating periods due to temperature monitoring
- Integral fans in the inverters in the output classes SGI 3500 T plus-02, SGI 4000 T plus-02 and SGI 4500 T plus-02
- External fan fixtures are also available for the following inverters SGI 1500 T plus-02 and SGI 2500 T plus-02

Type	DC input								AC output				General data					
	Max. PV generator output (W _{pv})	DC rated output (W _{pv})	MPP area (V _{mp})	Max. DC voltage (V _{dc})	Max. DC current (A)	No. of strings (parallel)	T-4 plug-in connector	AC rated output (W)	Max. AC output (W)	Main voltage (V) *	Max. AC current (A)	Frequency (Hz) *	AC plug	Max. efficiency (%)	European efficiency (%)	Dimensions W x H x D (mm)	Weight (kg)	
SGI 1500 T plus-02	2000	1750	125-510	600	14.3	3	1	■	1650	1650	184..264	8.0	45...55	3-pin	95.9	95.3	364 x 536 x 215	12.0
SGI 2500 T plus-02	3000	2650	200-510	600	13.5	3	1	■	2.500	2.500	184..264	12,5	45...55	3-polig	96,0	95,4	364 x 596 x 215	20,0
SGI 3500 T plus-02	4.200	3.700	200-510	600	18,5	3	1	■	3.500	3.500	184..264	17,0	45...55	3-pin	95,9	95,1	364 x 646 x 238	26,0
SGI 4000 T plus-02	5000	4500	200-510	600	22.4	3	1	■	4200	4200	184..264	20.5	45...55	3-pin	95.9	95.3	364 x 646 x 238	26.0
SGI 4500 T plus-02	6000	5300	200-510	600	26.5	3	1	■	4600	5000	184..264	24.0	45...55	3-pin	95.9	95.3	364 x 646 x 238	28.0

Technical data for the Schüco Inverter SGI T plus with transformer

■ included

* Default setting in accordance with the valid country-specific standards and guidelines