Solar Inverter from Delta -
The heart of your PV system

Content

About us

Delta Electronics Group (founded 1971) is the world leader in manufacturing switch-mode power supplies and a leading supplier of video displays and electronic components for computers, telecommunication, networking and other industrial sectors.

Delta has been steadily growing by 38.39% each year since 1971. In 2008, Delta achieved revenues of $5.3 billion US. More than 50,000 staff work for Delta all over the world in sales, development and production.

Delta Electronics has been successfully supporting environmental protection and the development of energy-saving technologies for many years. At the center of the company's activities is the designing of new equipment with steadily improving efficiencies, low no-load losses and high reliability. These efforts are further strengthened by investment in renewable energy products such as photovoltaic modules, inverters, and fuel cell converters.

Delta Energy Systems (Germany), a subsidiary of the multinational Delta family, is a world-wide market leader of custom and standard power supplies for the computer industry as well as telecommunication, medical technology and industrial applications.

Delta Energy Systems has been investing in the research and development of solar inverter products at its German location since 1999. The result of this is something to be proud of – reliable solar inverters with high efficiencies and state-of-the-art high-frequency topology.

Because of the advanced design of the casing, Delta solar inverters are suitable for both indoor and outdoor applications as well as satisfying all the current guidelines and safety standards.

Our highly motivated and regularly trained solar team is able to offer Delta customers fast service via the Solar Support Hotline set up especially for this purpose.

Do you need detailed information about the solar inverter; No problem! Our Delta Solar Team offers inverter training courses which can be run either on our premises or on your premises on request. Our Solar Team will be pleased to provide you more details about our different training options.

Delta solar inverters are supplied with a standard 5-year guarantee which, of course, can be extended to 10 years (price on request).

Delta has invested in state-of-the-art, ISO9000/14000, UL, TÜV and CSA certified production facilities in Slovakia to manufacture our high-quality solar inverter product line. Delta has a long history of producing a wide-range of cutting-edge power conversion devices at these locations for computer, medical, telecom, industrial, and renewable energy applications.

Maximize the efficiency of your solar installation by using the innovative inverter technologies from Delta!

SI 2000

Solar Inverter SI 2000

The solar inverter SI 2000 is an inexpensive solution for small solar plants with a maximum module output of 2450 W.

What is impressive about the SI 2000 is that it is simple and only caters for those things which are most important – a high efficiency AC current supply into the public mains at maximum yield and for low capital outlay.

By doing without components which are not necessary for efficient current conversion, such as the display or the communication interfaces, and by cost-optimising the design, we have been able to reduce the price of the converter in comparison with other models without losing any of the most important features.

Thus, with its tried-and-tested resonant converter technology, the transformer unit achieves a peak efficiency of 95.3% and its wide input voltage range means that it is versatile in use. It can also operate over a wide range of temperatures from -25 °C to +60 °C.

INPUT (DC)	
Max. recommended PV power	2450 W
Nominal power	2200 W
Voltage range	125 ... 540 V
MPP range	150 ... 450 V
Full power MPP range	150 ... 450 V
Nominal current	6.9 A
Max. current	13.7 A
Stand-by power	< 0.2 W

OUTPUT (AC)	
Nominal power	2000 W
Max. power	2100 W
Voltage range	184 ... 264 V *
Nominal current	8.7 A
Max. current	11.0 A
Nominal frequency	50 Hz
Frequency range	47.0 ... 52.0 Hz *
	* AC voltage and frequency range will be programmed according to the individual country requirements

Features

- Transformer with high efficiency (95.3%)
- Isolation of primary and secondary circuit
- Wide operating temperature ranges: -25 °C to +60 °C
- Intelligent MPP tracking
- Suitable for indoor and outdoor applications (IP65)
- Without fan

As with all the solar inverters from Delta, installing the SI 2000 is easy. Use the template provided to draw the drill holes where you want to install the unit.

Fix the screws in the wall and then you only need to hang the solar inverter by the holes provided, tighten the screws and it's ready!

With its IP65 casing, you can also install the SI 2000 solar inverter in protected outside areas. Since it is conductively isolated, personnel protection is guaranteed so the unit can even be installed in the living area – indoors or outdoors, it's up to you!

Delta's SI 2000 is particularly suitable for users who are looking for an inexpensive solar inverter for smaller solar installations such as those for single-family homes.

GENERAL SPECIFICATION	
Max. efficiency	95.3 %
Efficiency EU	93.8 %
Operating temperature	-25 ... +60 °C
Storage temperature	-25 ... +80 °C
Humidity	0 ... 95 %

MECHANICAL DESIGN	
Size (L x W x D)	443 x 335 x 150 mm
Weight	14.0 kg
Cooling	Convection, no fan connection
AC connector	Amphenol C16-1
DC connector pairs	1 Tyco Solarlok
Communication interfaces	Without communication
Display	3 LEDs

STANDARDS	
Protection degree	IP65
Safety class	1
Configurable trip parameters	Yes per software
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Safety	EN60950-1; EN50178
	IEC62103; IEC62109-1 / -2
Anti-islanding protection	DIN VDE 0126-1-1; RD 1663
	DK 5940 Ed. 2.2; EN50438

DIRECTIVES	
EMC	EN61000-6-2
	EN61000-6-3
	EN61000-3-2
	EN61000-3-3

SI 2500

Solar Inverter SI 2500

The second generation of high-efficiency, grid-connected SI 2500 solar inverters offers some innovations.

For example, the efficiency of the SI 2500 has been increased by up to 95.6% with the well-proven resonant converter topology. Another interesting feature of the 2nd generation SI 2500 is the expanded input voltage range up to 540 V.

These technical enhancements enable the solar inverter to provide an even more efficient supply while making it more versatile to suit different installation configurations.

As with all the solar inverters from Delta, installing the SI 2500 is easy. Use the template provided to draw the drill holes where you want to install the unit. Fix the screws in the wall and then you only need to suspend the solar inverter by the holes provided, tighten the screws and it's ready!

INPUT (DC)	
Max. recommended PV power	3100 W
Nominal power	2750 W
Voltage range	125 ... 540 V
MPP range	150 ... 450 V
Full power MPP range	150 ... 450 V
Nominal current	8.6 A
Max. current	18.0 A
Stand-by power	< 0.2 W

OUTPUT (AC)	
Nominal power	2500 W
Max. power	2620 W
Voltage range	184 ... 264 V *
Nominal current	11.0 A
Max. current	13.0 A
Nominal frequency	50 Hz
Frequency range	47.0 ... 52.0 Hz *
	* AC voltage and frequency range will be programmed according to the individual country requirements

Features

- Transformer with high efficiency (95.6%)
- Isolation of primary and secondary circuit for additional safety
- Wide operating temperature ranges: -25 °C to +60 °C
- RS485 (EIA485) communication interfaces
- Intelligent MPP tracking
- Suitable for indoor and outdoor applications (IP65)
- Without fan

With its IP65 casing, you can also install the SI 2500 solar inverter in protected outside areas. Since it is electrically isolated, personnel protection is guaranteed so the unit can even be installed in the living area – indoors or outdoors, it's up to you!

The relevant status messages and stored data can be easily called up either directly on the user-friendly display or via your PC which you have previously connected to the WEB'log from Meteocontrol and the solar inverter via the RS485 interface. Because the SI 2500 is compatible with products from Meteocontrol, you can keep an eye on the status of your PV installation and the output from anywhere at any time.

The SI 2500 can be used for any size of installation – particularly suitable for users who are looking for smaller to medium-sized solar installations in applications such as single-family homes.

GENERAL SPECIFICATION	
Max. efficiency	95.6 %
Efficiency EU	94.6 %
Operating temperature	-25 ... +60 °C
Storage temperature	-25 ... +80 °C
Humidity	0 ... 95 %

MECHANICAL DESIGN	
Size (L x W x D)	443 x 335 x 150 mm
Weight	14.0 kg
Cooling	Convection
AC connector	Amphenol C16-1
DC connector pairs	2 Tyco Solarlok
Communication interfaces	2 Harting RJ45 / RS485
Display	3 LEDs, LCD

STANDARDS	
Protection degree	IP65
Safety class	1
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Safety	EN60950-1; EN50178
	IEC62103; IEC62109-1 / -2
Anti-islanding protection	DIN VDE 0126-1-1; RD 1663
	DK 5940 Ed. 2.2; EN50438

DIRECTIVES	
EMC	EN61000-6-2
	EN61000-6-3
	EN61000-3-2
	EN61000-3-3

SI 3300

Solar Inverter SI 3300

The solar inverter SI 3300 from Delta has a peak efficiency of 96.0%, so it rightfully occupies first place among inverters with transformer (see Photon Solarstrom magazine 05/2008).

The elegant and compact design of the casing and low noise characteristics of the SI 3300 makes this solar inverter from Delta look good even in living areas. You can of course mount it in protected outside areas as well since the IP65 casing is dust-tight, completely safe to touch (shock proof) and protects the unit from spray water from any direction.

Highly efficient and reliable, with its intelligent MPP tracking, the SI 3300 extracts maximum performance from your solar cells under all operating conditions.

Using the wall bracket supplied, mounting Delta's SI 3300 is no problem, even for the private user.

INPUT (DC)	
Max. recommended PV power	4000 W
Nominal power	3630 W
Voltage range	125 ... 540 V
MPP range	150 ... 450 V
Full power MPP range	150 ... 450 V
Nominal current	13.0 A
Max. current	24.0 A
Stand-by power	< 0.2 W

OUTPUT (AC)	
Nominal power	3300 W
Max. power	3485 W
Voltage range	184 ... 264 V *
Nominal current	14.4 A
Max. current	17.0 A
Nominal frequency	50 Hz
Frequency range	47.0 ... 52.0 Hz *
	* AC voltage and frequency range will be programmed according to the individual country requirements

Features

- Transformer with peak efficiency (96.0%)
- Isolation of primary and secondary circuit for additional safety
- Wide operating temperature ranges: -25 °C to +70 °C
- RS485 (EIA485) communication interfaces
- Full power up to 57 °C (without derating)
- Intelligent MPP tracking
- Suitable for indoor and outdoor applications (IP65)
- Without fan

As soon as the wall bracket has been mounted where you want it, you only need to suspend the unit in the guide rail on the wall bracket with a single movement – no other drilling is necessary.

All the relevant status messages and stored data can be called up effortlessly either directly on the integrated display or via your PC which you have previously connected to the WEB'log from Meteocontrol and the solar inverter via the RS485 interface. Thanks to the self-explanatory menu, you can quickly navigate through the different status messages and select the required data. Because the SI 3300 is compatible with products from Meteocontrol, you can keep an eye on the status of your PV installation and the output from anywhere at any time.

The SI 3300 can be used for any size of installation. It is particularly suitable for users who are looking for medium-sized solar installations.

GENERAL SPECIFICATION	
Max. efficiency	96.0 %
Efficiency EU	94.8 %
Operating temperature	-25 ... +70 °C
Storage temperature	-25 ... +80 °C
Humidity	0 ... 98 %

MECHANICAL DESIGN	
Size (L x W x D)	410 x 410 x 180 mm
Weight	21.5 kg
Cooling	Convection
AC connector	Wieland RST25i3S
DC connector pairs	4 Tyco Solarlok
Communication interfaces	2 Harting RJ45 / RS485
Display	3 LEDs, LCD

STANDARDS	
Protection degree	IP65
Safety class	1
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Safety	EN60950-1; EN50178
	IEC62103; IEC62109-1 / -2
Anti-islanding protection	DIN VDE 0126-1-1; RD 1663
	DK 5940 Ed. 2.2; EN50438

DIRECTIVES	
EMC	EN61000-6-2
	EN61000-6-3
	EN61000-3-2
	EN61000-3-3

SI 5000

Solar Inverter SI 5000

The latest high frequency technology used in the SI 5000 solar inverter enables it to operate at maximum efficiency and guarantees continuous, outstanding energy outputs.

With its IP65 casing, this high-efficiency, grid-connected solar inverter can be used both inside and in protected outside areas.

The bracket into which the SI 5000 is simply suspended after it is fixed to the wall is identical to the one used for the SI 3300 solar inverter from Delta. You can therefore swap over the two units effortlessly.

The user-friendly display makes the unit easy to operate. The relevant status messages and stored data can be easily called up either directly on the illuminated display or via your computer, which you have previously connected to the WEB'log from Meteocontrol and the SI 5000 via the RS485 interface.

INPUT (DC)	
Max. recommended PV power	6000 W EU (5250 W DE)
Nominal power	5500 W EU (4850 W DE)
Voltage range	125 ... 540 V
MPP range	150 ... 450 V
Full power MPP range	150 ... 450 V
Nominal current	17.2 A
Max. current	32.0 A
Stand-by power	< 0.2 W

OUTPUT (AC)	
Nominal power	5000 W EU (4600 W DE)
Max. power	5240 W EU (5000 W DE)
Voltage range	184 ... 264 V *
Nominal current	22.0 A
Max. current	27.2 A
Nominal frequency	50 Hz
Frequency range	47.0 ... 52.0 Hz *
	* AC voltage and frequency range will be programmed according to the individual country requirements

Features

- Transformer with peak efficiency (95.6%)
- Isolation of primary and secondary circuit for additional safety
- Wide operating temperature ranges: -25 °C to +60 °C
- RS485 (EIA485) communication interfaces
- Simple and direct on-screen data display
- Intelligent MPP tracking
- Suitable for indoor and outdoor applications (IP65)

Because the SI 5000 is compatible with products from Meteocontrol, you can keep an eye on the status of your PV installation and the output from anywhere at any time.

The SI 5000 from Delta can be used for any size of installation. It is particularly suitable for users who are looking for a solar inverter for medium-sized to large solar installations.

GENERAL SPECIFICATION	
Max. efficiency	95.6 %
Efficiency EU	94.6 %
Operating temperature	-25 ... +60 °C
Storage temperature	-25 ... +80 °C
Humidity	0 ... 98 %

MECHANICAL DESIGN	
Size (L x W x D)	510 x 410 x 180 mm
Weight	32.0 kg
Cooling	Convection / fans optional
AC connector	Phoenix VARIOCON
DC connector pairs	4 Tyco Solarlok
Communication interfaces	2 Harting RJ45 / RS485
Display	3 LEDs, LCD

STANDARDS	
Protection degree	IP65
Safety class	1
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Safety	EN60950-1; EN50178
	IEC62103; IEC62109-1 / -2
Anti-islanding protection	DIN VDE 0126-1-1; RD 1663
	DK 5940 Ed. 2.2; EN50438

DIRECTIVES	
EMC	EN61000-6-2
	EN61000-6-3
	EN61000-3-2
	EN61000-3-3

CI 100

Central Inverter CI 100

This extreme efficient modular inverter system provides maximum flexibility for a power output of 11 kW to 100 kW and is suitable for all the commonly used solar modules. The system consists of nine high-efficient inverter racks, DC disconnectors, system controllers, and a robust cabinet. Also, if any individual components fail in one of the inverter racks, a system availability of approximately 90% is guaranteed and the 'redundant system' design of the CI 100 ensures maximum reliability.

The concept of the central inverter CI 100 supports the user when expanding the system to increase output etc. and is very easy to service.

With the latest high frequency technology, the electrically isolated CI 100 from Delta achieves peak efficiencies up to 95.6%.

Highly efficient and reliable, with its intelligent MPP tracking, the central inverter CI 100 gets maximum performance from your solar modules under all operating conditions.

INPUT (DC)	
Max. recommended PV power	120 kW
Nominal power	105 kW
Voltage range	400 ... 900 V
MPP range	450 ... 800 V
Full power MPP range	450 ... 800 V
Max. current	235 A

OUTPUT (AC)	
Nominal power	100 kW (9 x 11 kW)
Nominal voltage	3 NPE x 400 V *
Nominal current	145 A per phase
Max. current	180 A
Nominal frequency	50 Hz *
Frequency range	47.5 ... 52.5 Hz *
	* AC voltage and frequency range will be programmed according to the individual country requirements

Features

- Solutions from 11 kW to 100 kW
- Peak efficiency (95.6%)
- Fail-safe
- Ease of maintenance
- DC voltage range from 400 V to 900 V
- Intelligent MPP tracking
- Wide operating temperature range: -10 °C to +50 °C
- Suitable for indoor operation (IP20)
- User-friendly touch-screen display

Of course, the CI 100 is also fitted with overvoltage protection, heat protection, short-circuit protection and overcurrent protection. Delta's central inverter meets all guidelines regarding safety standards, EMC and national requirements.

The user-friendly menu navigation via the integrated touch-screen display makes the unit easy to operate. All the operating states and fault messages on the CI 100 or PV installation can be monitored on the illuminated display or invoked via the RS485 interface. You can therefore get an overview of the different measurement values and system data recorded within a day, week, month or year.

As with all the solar inverters in the product range from Delta, the CI 100 is compatible with the safer'Sun Monitoring System from Meteocontrol.

GENERAL SPECIFICATION	
Max. efficiency	95.6 %
Efficiency EU	95.0 %
Operating temperature	-10 ... +50 °C
Storage temperature	-25 ... +60 °C
Humidity	0 ... 95 %

MECHANICAL DESIGN	
Size (L x W x D)	2000 x 600 x 1000 mm (without fan tray / without cabinet base)
Size (L x W x D)	2215 x 600 x 1000 mm (with fan tray / without cabinet base)
Weight	460.0 kg
Cooling	Fan cooling
AC connector	Terminal connection
DC connector	Terminal connection
AC disconnector	Integrated
DC disconnector	Integrated
Display	5.7" touch-screen

STANDARDS	
Protection degree	IP20
Safety class	1
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behaviour	Current limitation; power limitation
Safety	EN60950-1; EN50178
	IEC62103; IEC62109-1 / -2
Anti-islanding protection	DIN VDE 0126-1-1; RD 1663
	DK 5940 Ed. 2.2; EN50438

DIRECTIVES	
EMC	EN61000-6-2
	EN61000-6-3
	EN61000-3-11
	EN61000-3-12

Solar accessories

WEB'log Products - Meteocontrol

Part number Delta	WEB'log products
5040007800	WEB'log light + Analog (max. 5 solar inverters; 20 kWp)
5040007900	WEB'log light + DSL / Ethernet (max. 5 solar inverters; 20 kWp)
5040007500	WEB'log Basic Analog, incl. power supply
5040007700	WEB'log Basic ISDN, incl. power supply
5040007600	WEB'log Basic DSL / Ethernet, incl. power supply
5040007100	WEB'log Pro Analog, incl. display & power supply
5040007200	WEB'log Pro ISDN, incl. display & power supply
5040007300	WEB'log Pro GPRS, incl. display & power supply
5040007400	WEB'log Pro DSL / Ethernet, incl. display & power supply
3081126400	Connect Delta (Easyconnect cable) IP20

Part number Delta	Irradiance sensors
5040009400	Irradiance sensor Si-12TC, 0 - 10 V
5040002200	Irradiance sensor Si-12TC-T, 0 - 10 V; incl. temperature
5040009200	Irradiance sensor Si-12TC, 0 - 10 V; incl. 30 meter connection cable
5040009300	Irradiance sensor Si-12TC-T, 0 - 10 V; incl. temperature and 30 meter connection cable
5040010600	Irradiance sensor Si-12TC, 0 - 10 V; incl. 15 meter connection cable
5040010700	Irradiance sensor Si-12TC-T, 0 - 10 V; incl. temperature and 15 meter connection cable

PV plug connectors - Tyco Solarlok

Part number Delta	Plug connectors
3072352725	Tyco Solarlok PV connectors, Female cable coupler Plus coded, 2.5 mm² (AWG 14)
3072352625	Tyco Solarlok PV connectors, Female cable coupler Minus coded, 2.5 mm² (AWG 14)
3072350725	Tyco Solarlok PV connectors, Female cable coupler Plus coded, 4.0 mm² (AWG 12)
3072350625	Tyco Solarlok PV connectors, Female cable coupler Minus coded, 4.0 mm² (AWG 12)
3072350525	Tyco Solarlok PV connectors, Female cable coupler Plus coded, 6.0 mm² (AWG 10)
3072350425	Tyco Solarlok PV connectors, Female cable coupler Minus coded, 6.0 mm² (AWG 10)
5100221900	Tyco crimping handtool for Solarlok 2.5 mm²
5100221800	Tyco crimping handtool for Solarlok 4.0 mm² and 6.0 mm²

Female Cable Coupler

Male Cable Coupler

Fan - Delta

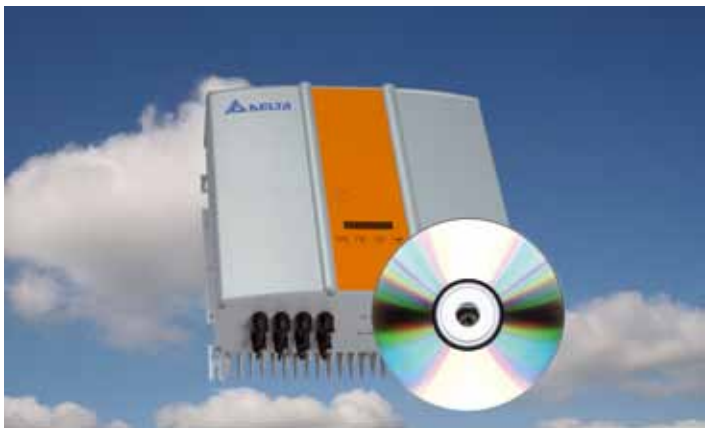
Part number Delta	Fan
EOE99000124	Fan for SI 2500 G2
EOE99000116	Fan for SI 5000

Grounding kit - Delta

Part number Delta	Grounding kit
EOE99000115	Kit for grounding of the solar inverters SI 2500 G2, SI 3300 and SI 5000

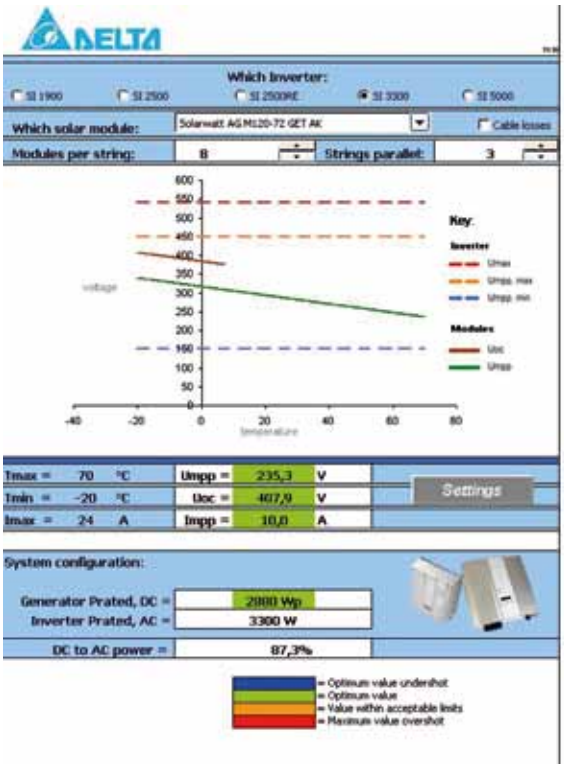
Solar Inverter Service Software Kit - Delta

Part number Delta	Solar Inverter Service Software Kit
EOE90000220	Tool to monitor and configure the solar inverters SI 2500 G2, SI 3300, SI 5000 and the central inverter CI 100



Solar configurator - Delta

Part number Delta	Solar configurator
	Tool for planning of solar systems
	Download: www.solar-inverter.com



DC disconnector - Santon

Part number Delta	DC disconnector
3000184492	Two-pole DC disconnector, 500V/16A, DC21, IP65 for max. 2 strings, without overvoltage protection, suitable for SI 2000 and SI 2500 (1 MPP)
3000183292	Two-pole DC disconnector, 600V/25A, DC21, IP65 for max. 5 strings, without overvoltage protection, suitable for all SI models
3000187692	Two-pole DC disconnector, 600V/25A, DC21, IP65 for max. 4 strings, with overvoltage protection, suitable for all SI models
	DC disconnectors with integrated overvoltage protection are available on request

Connection cable - Harting

Part number Delta	Connection cable
3081129500	Connection cable from Delta solar inverter to WEB'Logger from Meteocontrol: - Assembled outdoor cable with Harting RJ45 PushPull and RJ12 plugs, IP65, length of 5 meters - Only suitable for SI 2500 G2, SI 3300 and SI 5000
3081186300	Connection cable from inverter to inverter: - Harting PushPull system cable RJ45, 8-core for IP65/67 applications, length of 1.5 meters - Only suitable for SI 2500 G2, SI 3300 and SI 5000
3081186500	Connection cable from inverter to inverter: - Harting PushPull system cable RJ45, 8-core for IP65/67 applications, length of 3.0 meters - Only suitable for SI 2500 G2, SI 3300 and SI 5000
3081186600	Connection cable from inverter to inverter: - Harting PushPull system cable RJ45, 8-core for IP65/67 applications, length of 5.0 meters - Only suitable for SI 2500 G2, SI 3300 and SI 5000
3081186200	Connection cable from inverter to inverter: - Harting PushPull system cable RJ45, 8-core for IP65/67 applications, length of 10.0 meters - Only suitable for SI 2500 G2, SI 3300 and SI 5000
3081186400	Connection cable from inverter to inverter: - Harting push-pull system cable RJ45, 8-core for IP65/67 applications, length of 20.0 meters - Only suitable for SI 2500 G2, SI 3300 and SI 5000

Partner for solar accessories

Supplier of large displays:

- RiCo Electronic Design: www.rico-electronic.de
- HvG Hard&Software Engineering: www.HvG-Engineering.de
- Schneider Displaytechnik: www.schneider-displaytechnik.de
- Visual Electronic: www.visual-electronic.de

Supplier of large generator terminal boxes:

- EnWi-Etec: www.de.enwi-etec.com

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