



UniLynx Inverter Range

Single phase - 1.8, 3.6 and 5.4 kW

Intelligent Inverter Solutions

- . Unique versatility
- . Optimum energy output
- . Easy monitoring
- . Safe and easy to install and service

Our range of single-phase inverters covers 1.8, 3.6 and 5.4 kW in high voltage and medium voltage versions and also comes in two cabinet versions. Indoor inverters have an IP21 cabinet. Outdoor inverters have an IP54 cabinet and are resistant to rain, snow and dust.



The PV system configurator helps users to design and dimension solar energy systems.

The integrated electromechanical DC switch (optional) ensures maximum security during servicing.

Three individual PV inputs and three dedicated MPP trackers form the multi DC string input.

Unique versatility

• Multi DC string input

Due to the one to three string input, module mismatch losses and losses from partial shading are greatly reduced; if one string is not functioning optimally, the remaining two strings will continue production unaffected.

• One inverter for 16 countries

All Danfoss inverters can run in 16 different countries and are configured on site. Just select the country at initial set-up and the inverter will configure itself to comply with regulations.

• Individual/parallel configuration

The same inverter can run in both individual and parallel (master/slave) configuration, depending on the configuration of the wiring. If all panels are identical, master/slave is the ideal configuration. When panels are of varying types, if they have different angles or display different operation conditions, individual configuration is ideal, as a designated MPP tracker is appointed for each string. The inverter will automatically detect the wiring and run the appropriate configuration via the auto detection algorithm.

• 5 inch or 6 inch modules and thin film

UniLynx comes in two input voltage ranges: High Voltage (HV), dedicated to 5-inch cell modules, and Medium Voltage (MV), dedicated to 6-inch modules. These dedicated input voltage ranges limit power losses and assure the string operating voltage is correct in order for the inverter to optimise total energy output. This transformer inverter also handles thin film modules.

Optimum energy output

• High MPP tracker efficiency

Individual MPP trackers ensure the system always runs at optimum power output regardless of size differences and PV module placement. The accuracy of the MPP trackers has been tested at the Arsenal Research Institute in Vienna as well as in an ISORRIP test, in which representative sample data from a year's irradiation was used to calculate the efficiency. At static irradiation the MPP tracker efficiency is 99.9% (MPP European Efficiency). And at dynamic irradiation the MPP tracker efficiency is 99.4%.

Ride Through

All Danfoss inverters have a built-in algorithm called Ride Through. This algorithm ensures the inverter stays on grid even during severe grid disturbances. The inverters will only disconnect when AC grid limits set by the authorities are exceeded.



while ensuring the inverter is not damaged, and will in the long run ensure long life.

• Early start-up and late stop of daily production

Danfoss Solar Inverters use a combination of two MPP tracking methods,
designed solely to work with both high and low irradiation levels, which ensures
power production even with limited sun.

Should the inverter come across conditions of increased grid voltage, increased current levels or too high ambient temperatures, it will limit the output accordingly to protect itself. This derating function means that the inverter will continue producing although conditions exceed inverter limitations. This will increase yield

Easy communication and monitoring

Safe and easy to install and service

• RS485 communication

· Derating function

All inverters can be fitted with RS485 cable system data loggers and webloggers for easy communication and monitoring of the investment.

• Standard connection for DC input and AC output

Danfoss inverters cannot be configured wrongly: Just connect the inverter and the auto detection will register the DC-wiring of the inverter and configure accordingly.

• Integrated DC switch (optional)

For the protection of the installation engineer and service personnel, our inverters have an integrated DC switch (optional) to enable PV power to be disconnected safely.

Simply switching off the DC switch is enough to disconnect DC power from the solar modules to the inverter.

Servicing on site

The Unilynx has a modular PCB design. All inverters have one AC PCB and for each string input a dedicated DC PCB. Each individual PCB can be quickly exchanged on site if necessary.

Service tool

The software-based Service tool makes service extremely easy, allowing technicians to configure and monitor PV inverters and PV inverter networks, as well as updating software via an RS485 standard communication bus.



Specification: Nominal Power DC Max DC Power Nominal Power AC Max AC Power Max efficiency Euro efficiency Power factor Turn on power Standby consumption Night consumption Voltages: Nominal Voltage DC MV Nominal Voltage DC HV MPP voltage MV MPP voltage MV MPP voltage HV Individual/Parallel MAX DC voltage MV Individual/Parallel Turn off voltage DC HV AC voltage DC HV AC voltage DC MV Turn off voltage DC MV AC voltage TV MAX DC voltage MV Individual/Parallel Turn off voltage DC HV AC voltage range AC frequency range Currents: Max current DC MV Max current DC MV Max current DC MV Max current DC HV Nominal current AC Distortion (THD%) Other: Dimensions (L,W,H)	1800 W 1950 W 1650 W 1800 W 93.70 % 91.60 % 0.97 at > 20 % load 20 W 8 W < 0.2 W 310 V 430 V 125-350 V 250-500 V 450/410 V 600/550 V 100 V 200 V 230 ± 15% V 50 ± 5 Hz 10 A 7 A 6.5 A 8 A < 5 %	3600 W 3900 W 3300 W 3600 W 94.20 % 93.40 % 0.97 at > 20 % load 20 W 8 W < 0.2 W 310 V 430 V 125-350 V 250-500 V 450/410 V 600/550 V 100 V 200 V 230 ± 15 % V 50 ± 5 Hz 20 A 14 A 13 A 15.5 A < 5 %	5400 W 5850 W Outdoor: 4600/5000 W Indoor: 4600/5000 W 94.30 % 93.40 % 0.97 at > 20 % load 20 W 8 W < 0.2 W 310 V 430 V 125-350 V 250-500 V 450/410 V 600/550 V 100 V 200 V 230 ± 15 % V 50 ± 5 Hz 30 A 21 A Outdoor: 19/22 A / Indoor: 19 A 23 A
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Nominal current AC Max current AC Distortion (THD%) Other:	6.5 A 8 A	13 A 15.5 A	Outdoor: 19/22 A / Indoor: 19 A
Max current AC Distortion (THD%) Other:	8 A	15.5 A	
Distortion (THD%) Other:	· · · · · · · · · · · · · · · · · · ·		23 A
Other:	< 5 %	< 5 %	
			< 5 %
Dimensions (L,vv,H)	0 . 1 . 511 205 1055 . /	0 1 640 205 1055	0 1 700 305 1055 /
	Outdoor: 511x395x195.5 mm/ Indoor: 369x386x188 mm	Outdoor: 640x395x195.5 mm/ Indoor: 498x386x188mm	Outdoor: 769x395x195.5 mm/ Indoor: 634x386x188mm
Weight	Outdoor: 16 kg / Indoor: 14 kg	Outdoor: 23 kg / Indoor: 19.5 kg	Outdoor: 27 kg/ Indoor: 23.3 kg
Acoustic Noise level	Outdoor: 55 dB(A)/ Indoor: 45 dB(A)	Outdoor: 55 dB(A)/ Indoor: 45 dB(A)	Outdoor: 55 dB(A)/ Indoor: 45 dB(A)
Operation temperature range	-25 +60 °C	-25 +60 °C	-25 +60 °C
MPP efficiency	99.9 %	99.9 %	99.9 %
Overload operation	Change of operating point	Change of operating point	Change of operating point
Grid surveillance	U/f window & impedance monitoring	U/f window & impedance monitoring	U/f window & impedance monitoring
Mounting recommandation	Wall bracket	Wall bracket	Wall bracket
P	IP 21/ IP 54	IP 21/ IP 54	IP 21/ IP 54
solation monitoring	included	included	included
Standard:	DC 405	DC 405	DC 405
Serial Communication	RS485 Display	RS485	RS485 Display
Display	Display	Display	Display
Options:			
DC switch	DC switch	DC switch	DC switch
	Parallel string operation /Autodetection	Parallel string operation /Autodetection	Parallel string operation /Autodetection
drainer string operation	3	3	
Normative references:			
Directive LVD	73 / 23 / EC	73 / 23 / EC	73 / 23 / EC
Directive EMC	2004 / 108 / EC	2004 / 108 / EC	2004 / 108 / EC
Safety	EN 50178	EN 50178	EN 50178
MC immunity	EN 61000-6-1	EN 61000-6-1	EN 61000-6-1
	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
	EN 61000-4-13, -14, -28	EN 61000-4-13, -14, -28	EN 61000-4-13, -14, -28
	EN 60146-1	EN 60146-1	EN 60146-1
EMC emission	EN 61000-6-3	EN 61000-6-3	EN 61000-6-3
	EN 61000-6-4	EN 61000-6-4	EN 61000-6-4
Jtility Interference	EN 61000-3-2, -3	EN 61000-3-2, -3	EN 61000-3-11, -12
Functional safety, Anti-islanding	DIN VDE 0126-1-1	DIN VDE 0126-1-1	DIN VDE 0126-1-1
CE CONTRACTOR OF THE CONTRACTO	Yes	Yes	Yes
Utility characteristics	IEC 61727, EN 50160	IEC 61727, EN 50160	IEC 61727, EN 50160
taly Spain	DK5940 RD1663	DK5940 RD1663	DK5940 RD1663

Danfoss Solar Inverters A/S

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