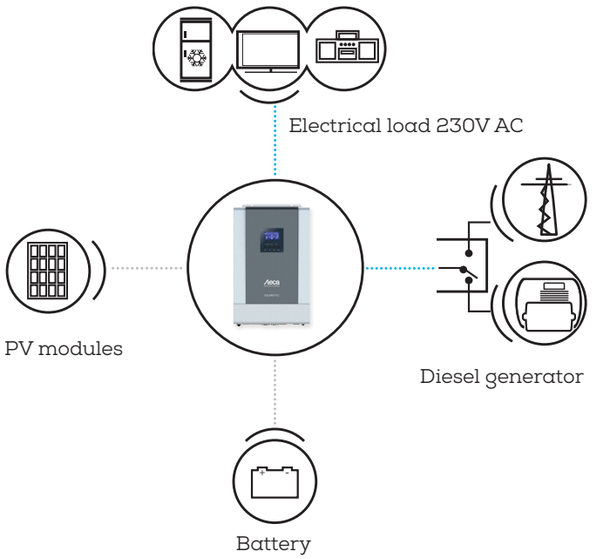
| | PLI 5000-48 | PLI 2400-24 | PLI 1000-12 |
|---|---|---|---|
| **Characterisation of the operating performance** | | | |
| System voltage | 48 V | 24 V | 12 V |
| Continuous power | 5 kW / 5 kVA | 2,4 kW / 3 kVA | 1 kW / 1,2 kVA |
| Power 5 sec. | 10 kW / 10 kVA | 4,8 kW / 6 kVA | 2 kW / 2,4 kVA |
| Maximum efficiency sine wave | > 93 % | > 91 % | > 90 % |
| Maximum efficiency charge controller | > 98 % | | > 95 % |
| Own consumption Standby / ON | < 15 W / < 50 W | < 14 W / < 45 W | < 4 W / < 17 W |
| **AC input side** | | | |
| Input voltage | 90 V AC ... 280 V AC | | |
| Input frequency | 40 ... 65 HZ, 50 / 60 Hz (automatic detection) | | |
| Max. current on transfer system | 40 A | 30 A | 10 A |
| Transfer time | 10 ms typical (UPS mode) | | |
| **AC output side** | | | |
| Output voltage | 230 V AC +/- 5 % | 220 V AC ... 240 V AC +/- 5 % | 230 V AC +/- 5 % |
| Output frequency | 50 / 60 Hz | | |
| **Battery** | | | |
| Battery voltage | 38,4 V ... 66 V | 20 V ... 30 V | 10 V ... 15 V |
| Maximum charge current of PV | 80 A | 40 A | |
| Maximum charge current of AC | 60 A | | 20 A |
| End of charge voltage | 54,0 V | 27,0 V | 13,5 V |
| Boost charge voltage | 56,4 V | 28,2 V | 14,1 V |
| Equalisation charge | 60,0 V | 29,2 V | 14,6 V |
| Set battery type | liquid | | |
| **DC input side charge controller** | | | |
| Min. MPP voltage | 60 V | 30 V | 15 V |
| Max. MPP voltage | 115 V | 80 V | |
| Min. open circuit voltage solar module (at minimum operating temperature) | 72 V | 36 V | 18 V |
| Max. open circuit voltage solar module (at minimum operating temperature) | 145 V | 100 V | |
| Max. module current | 80 A | 40 A | |
| Nominal charge power | 4800 W | 1168 W | 550 W |
| Own consumption | < 2 W | | |
| **Operating conditions** | | | |
| Operating Temperature | 0 °C ... + 55 °C | | |
| Storage temperature | - 15 °C ... + 60 °C | | |
| Relative humidity | < 95 %, non-condensing | | |
| Maximum altitude | 2000 m a.s.l | | |
| **Fitting and construction** | | | |
| Terminal (AC - fine / single wire) | 8 mm² - AWG 8 | | |
| Terminal (PV fine / single wire) | 12 mm² - AWG 6 | 8 mm² - AWG 8 | |
| Battery connection (M6 ring terminal included) | 35 mm² ... 50 mm² AWG 2 ... AWG 0 | | 25 mm² - AWG 3 |
| Double throw signal contact | 3 A / 250 V AC (max. 150 W), 3 A / 30 V DC | | |
| Degree of protection | IP 21 | | |
| Dimensions (X x Y x Z) | 298 x 469 x 130 mm | 275 x 385 x 114 mm | 275 x 385 x 115 mm |
| Weight | 11,5 kg | 7,6 kg | 6,9 kg |
| Cooling principle | fan | | |

Technical data at 25 °C / 77 °F

# Highlights and application examples

- Stand-alone inverter with MPPT charger controller and grid connection/generator connection for grid independent operation
- Fast switching time of 10 ms for uninterruptible power supply
- Dual overload capability for reliable starting of large AC motors




- At night or in the event of complete failure of the PV modules and empty battery, the inverter automatically switches to the AC power source (public power grid or generator)
- Power increase or parallel operation of several inverters possible
- 3-phase operation with 3 inverters possible

KATEK

Lead the category

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# Steca Solarix PLI

## 5000-48 | 2400-24 | 1000-12

- **NEW:** Online monitoring with multi-level portal access
- True sine wave voltage
- High overload capacity
- Integrated MPP-tracker
- Multistage charging technology
- Up to 9 inverters can be connected in parallel and/or three-phase (Steca Solarix PLI 5000-48 & Solarix PLI 2400-24)

ENGLISH | 2022.05

# All-in-one hybrid inverter


The Steca Solarix PLI is the first product from Steca to offer a complete package. It enables consumers to be supplied with 230 V AC, charge the battery with an integrated MPPT charge regulator and at the same time allow connection to a generator or the existing mains. All in one device.

For example, solar energy can be used with the highest priority. If this is not sufficient, a generator can be started or connected to the public power grid. At the same time, the battery can also be recharged from the generator or the mains. Thanks to the fast switching time of up to 10 ms and the flexible selection of the energy priority, the Solarix PLI also works as an uninterruptible power supply.

With the double overload capacity, even difficult loads such as large AC motors can be started reliably. The maximum power point tracker in the integrated charge controller ensures that maximum power is obtained from the PV modules, even under unfavorable lighting conditions, in order to optimally charge the battery and power the loads at the same time.

**Product features**
- True sine wave voltage
- High overload capacity
- Integrated MPP-tracker
- Multistage charging technology
- Monthly equalising charge
- Auxiliary contact for starting a generator
- Adjustable charging end voltages
- Battery type: gel / liquid lead battery (without communication)
- Lightweight construction
- Easy installation

**Displays**
- Graphical LC display
- 3 multi-coloured LEDs show operating states

**Options**
- Interconnectable in parallel or in three-phases (extension module required)

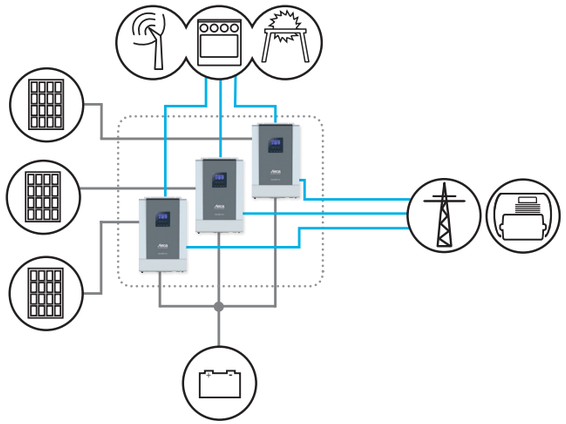
**Interfaces**
- Current data is output via RS-232

**Electronic protection functions**
- Overcharge protection
- Reverse polarity protection of the modules, for battery via fuse
- Deep discharge protection
- Short circuit protection of load and module
- Reverse current protection at night
- Overtemperature and overload protection
- Acoustic alarm
- PE connection

**Operation**
- Simple menu-driven operation
- Button-based programming

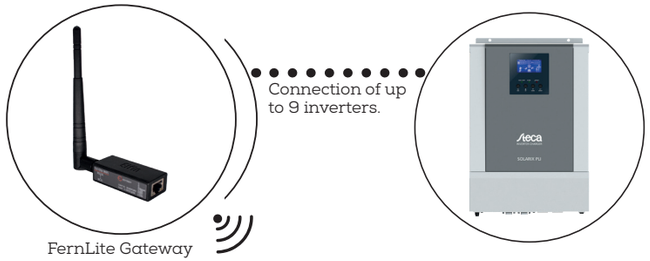
**Certificates**
- Compliant with European Standards (CE)
- RoHS compliant
- Manufactured according to ISO 9001 and ISO 14001

Up to 9 inverters can be connected in parallel and/or three-phase (Steca Solarix PLI 5000-48 and Solarix PLI 2400-24).



# The monitoring solution: FernView

- Track the performance of all your systems on one screen
- Change system configurations remotely to avoid site visits
- Easy installation, no external power required




Single view dashboard supported by FernView.

powered by ODYSSEY

- For single-phase and three-phase systems (up to 9 inverters per system)
- Notifications and alerts via e-mail
- Multi-level portal access for distributors / installers / system owners with customized user rights

# Portal features

- Intuitive status overview of all systems
- Standardized dashboard with layout diagram
- Key performance indicators and charts for intuitive
- System performance understanding
- Change the inverter configuration remotely
- Keep historical records of all previous configuration changes
- Set-up notifications when an alarm is triggered or thresholds are reached
- Export data easily
- API integration available for third-party software
- Available in English, Spanish and French

# Gateway features

- Connect up to 9 inverters with 1 gateway
- Directly powered from the inverter
- Communication to Inverter via RS232 cable included
- Connection to Internet via WiFi; 4G version available on request
- End-to-end SSL encrypted data transfer