

**THREE-PHASE
TRANSFORMERLESS
1,500 V STRING
INVERTER WITH
THE MAXIMUM
POWER DENSITY**

INGECON® SUN 160TL

A three-phase inverter family for commercial, industrial and utility-scale PV plants.

Greater cost-effectiveness

Thanks to its greater output power (up to 160 kW if connected to a 690 Vac network), the new INGECON® SUN 160TL allows to drastically reduce the number of inverters required for designing a PV power plant. Thus, it minimises the labour cost and reduces the global cabling cost. Furthermore, it enables up to a 20% cost reduction in AC cabling as this PV inverter does not require a neutral wire.

Moreover, it does not require DC combiner boxes, nor AC combiner boxes, ensuring the minimum possible CAPEX (Capital Expenditures).

Furthermore, its string inverter philosophy permits an easy and immediate replacement that does not require qualified technicians.

Higher flexibility and power density

The highest flexibility thanks to its maximum DC voltage (1,500 V) and to its wide voltage range MPP (576-1,250 V). Awesome power density, with up to 161 kW in a 75 kg inverter.

Rugged design

Aluminium casing, especially conceived for indoor and outdoor applications (IP65). The INGECON® SUN 3Play TL inverters have been designed to guarantee a long life expectancy and to withstand extreme temperatures.

Advanced communications as standard

Thanks to the Wi-Fi communication that this inverter integrates, the power plant can be monitored and controlled without any additional communication cabling. Moreover, it also integrates Ethernet communication. These features, together with the webserver that the inverter integrates, enable a fast and reliable commissioning using a mobile phone, a tablet or a laptop. Furthermore, it is compatible with external Cloud Connect software.

Standard 5 year warranty, extendable for up to 25 years



160TL

Fully equipped

The 1,500 V series within the INGECON® SUN 3Play inverter family is supplied fully equipped with the main electric protections, aiming to reach the maximum performance with the greatest cost-effectiveness.

Integrated features

	STD version	PRO version
DC inputs terminal Block	✓	
PV fast connectors ⁽¹⁾		✓
DC switch	✓	✓
DC surge arresters (type I+II)	✓	✓
AC surge arresters (type II)	✓	✓
DC fuses		✓ ⁽²⁾
Strings current metering kit		✓
Wi-Fi and Ethernet communications	✓	✓

Notes: ⁽¹⁾ No crimping tool needed ⁽²⁾ 32A fuses. Only for the positive pole. Optionally, DC fuses for the negative pole also available.

MAIN FEATURES

- Low-voltage ride-through capability.
- Reactive power capability.
- Compatible with external Cloud Connect software.
- 99.1% maximum efficiency.
- Ethernet and Wi-Fi communications supplied as standard.
- Integrated Webserver.
- Software INGECON® SUN Monitor for PV plant monitoring.
- Suitable for indoor and outdoor installations (IP65).
- High temperature performance.

- Different versions to satisfy every project needs.
- 3 digital inputs and 2 digital outputs.
- DRMO Input Ready (for the Australian market).

PROTECTIONS

- Shortcircuits and overloads at the output.
- Anti-islanding with automatic disconnection.
- Insulation faults.
- AC overvoltages with type 2 surge arresters.
- DC overvoltages with type 1+2 surge arresters.
- 32A DC fuses (PRO version).

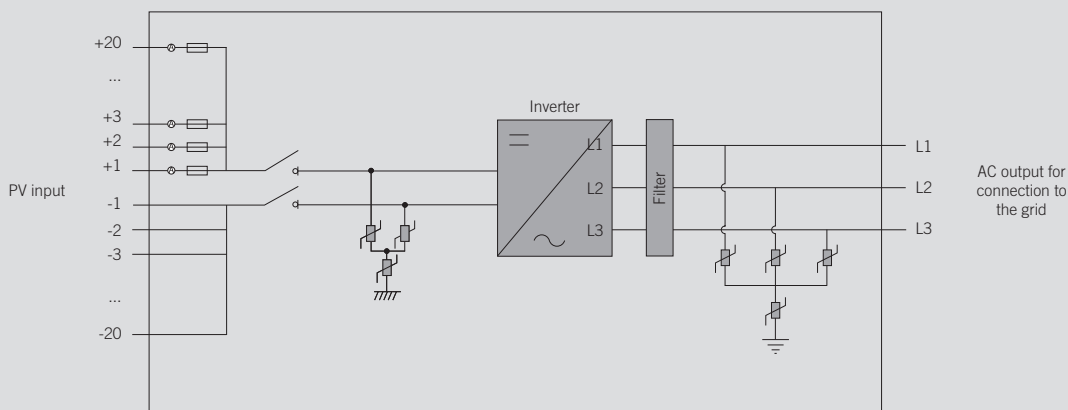
OPTIONAL ACCESSORIES

- Self-consumption kit.
- RS-485 communication.
- DC fuses for the negative pole.
- Compatibility with night power supply.

BENEFITS

- Greater power density.
- Greater cost-effectiveness thanks to the cabling cost reduction.
- High availability compared to central inverters.
- High efficiency rates.
- Easy maintenance.

INGECON® SUN 160TL PRO version





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