

## Ingecon®SunPower

TRANSFORMERLESS  
100TL / 125TL / 150TL



### Optimum performance at large multi-megawatt installations

Designed for ease of maintenance, offering high efficiency at high temperatures, and featuring full electric protections as a standard supply, this inverter family is one of the most popular in the **Ingecon®Sun** inverter range. These **Ingecon®Sun Power** transformerless inverters are designed for medium and large power roof installations and also for ground-based multi-megawatt installations.

This inverter family is equipped with an advanced maximum power point tracking system (MPPT) to extract the maximum power from the PV array. No additional items are required and they can be manually disconnected from the grid.

Each inverter incorporates an internal data logger for up to 3 months data storage, which can be accessed from either a remote PC or in situ from the inverter front panel, through a keypad. This front panel also features LED status and alarm indicators and an LCD screen.

The **Ingecon®Sun Power** transformerless inverters have been designed with components which offer a useful life of more than 20 years. They come with a standard guarantee of 5 years, which can be extended for periods to up to 25 years.

#### Protections

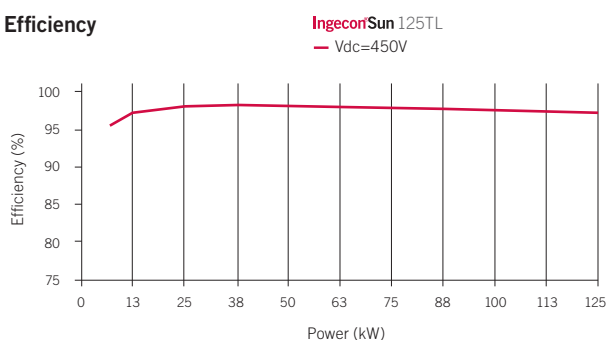
The **Ingecon®Sun Power** transformerless inverters are equipped with the following electrical protections against:

- Galvanic isolation between the DC and AC side.
- Reverse polarity.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC breaker.
- DC fuses.
- AC MT breaker.
- DC surge arresters.
- AC surge arresters.

#### Optional accessories

- Inter-inverter communication via RS-485 or Ethernet.
- Modem for GSM/GPRS remote communication.
- **Ingecon®Sun Manager** software for parameter display and data recording.
- **IngeRAS™ PV** for Internet data display.
- PV array string current monitoring.  
**Ingecon®Sun String Control.**

#### Efficiency



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### Technical data

Model	IngeconSun 100TL	IngeconSun 125TL	IngeconSun 150TL
<b>Input (DC)</b>			
Recommended PV array power range <sup>(1)</sup>	103 - 130 kWp	141 - 163 kWp	172 - 195 kWp
Voltage range MPP	405 - 750 V	405 - 750 V	450 - 750 V
Maximum voltage DC <sup>(2)</sup>	900 V	900 V	900 V
Maximum current DC	260 A	357 A	357 A
DC inputs	4	4	4
MPPT	1	1	1
<b>Output (AC)</b>			
Rated power AC HT <sup>(3)</sup>	100 kW	125 kW	150 kW
Rated power AC HP <sup>(4)</sup>	110 kW	137 kW	165 kW
Maximum current AC	326 A	368 A	368 A
Rated voltage AC	220 V IT	220 V IT	275 V IT
Frequency AC	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Phi Cosine <sup>(5)</sup>	1	1	1
Phi Cosine adjustable	±0.9 to Pnom	±0.9 to Pnom	±0.9 to Pnom
THD <sup>(6)</sup>	<3%	<3%	<3%
<b>Efficiency</b>			
Maximum efficiency	98.40%	98.10%	98.5%
Euroefficiency	97.50%	97.70%	98.2%
<b>General Information</b>			
Stand-by consumption <sup>(7)</sup>	30 W	30 W	30 W
Consumption at night	1 W	<5 W	<5 W
Ambient temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
Relative humidity	0 - 95%	0 - 95%	0 - 95%
Protection class	IP 20	IP 20	IP 20
Compliance with standards	RD 661/2007, EN 50178, Reglamento VDEW BT, RTC alle rete BT di Enel Distribuzione, CEI 11-20, CEI 11-20 V1, CEI 0-16, CE Mark		

#### HT mode (high temperature)

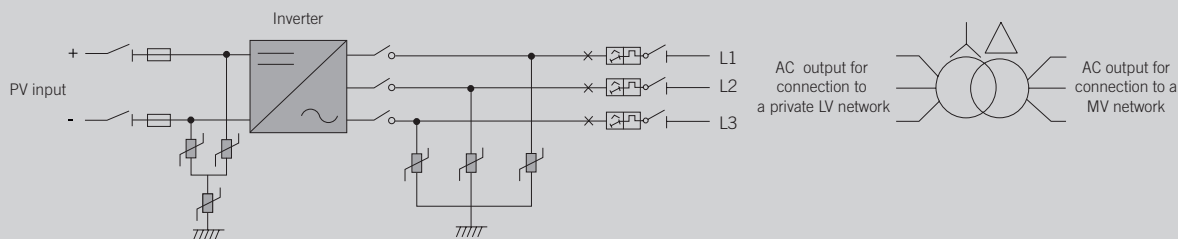
Rated outputs at 45°C

#### HP mode (high power)

Rated outputs at 40°C

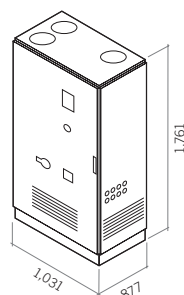
**Notes:** <sup>(1)</sup> Depending on the type of installation and geographical location. <sup>(2)</sup> Must not be exceeded under any circumstances. Consider the voltage increase of the 'Voc' at low temperatures. <sup>(3)</sup> Up to 45°C ambient temperature, Pmax= 110% Pnom for non permanent transients <sup>(4)</sup> Up to 40°C ambient temperature, Pmax = Pnom <sup>(5)</sup> For Pout > 25% of the rated power. Possibility to modify the Phi Cosine. <sup>(6)</sup> For Pout > 25% of the rated power and voltage in accordance with IEC 61000-3-4 <sup>(7)</sup> Consumption from PV field.

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#### Size and weight (mm)

<b>IngeconSun</b> 100TL	560 kg.
<b>IngeconSun</b> 125TL	600 kg.
<b>IngeconSun</b> 150TL	600 kg.



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