

**SINGLE PHASE  
TL INVERTERS  
DESIGNED  
FOR THE  
RESIDENTIAL  
SECTOR AND  
LARGER,  
DECENTRALIZED  
PROJECTS**

## 3.6TL U / 5TL U / 6TL U / 7.5TL U / 8.6TL U / 10TL U

The INGECON® SUN Lite TL U inverters are designed to adapt to the standards and regulations in force in the different international markets. The inverters are apt for different types of installations, ranging from residential up to commercial solar systems.

### Maximum efficiency and flexibility

The INGECON® SUN Lite TL U inverters are compatible with all the PV module technology on the market, thereby permitting greater flexibility when sizing PV installations. Furthermore, they feature an advanced maximum power point tracker system (MPPT) to extract the maximum power from the PV array.

### Software included

It includes, without any extra cost, RS-485 communications as well as the software INGECON®

SUN Manager, INGECON® SUN Monitor and its iSun Monitor Smartphone version for monitoring, displaying and recording the data from the inverter through the Internet. Each inverter incorporates an internal data logger for up to 3 months data storage, which can be accessed from either a remote PC or on-site from the inverter front panel, through a keypad.

### Robust design

This inverter features an aluminium casing, for indoor and outdoor installation, capable of withstanding very high temperatures. The INGECON® SUN Lite TL U inverters have been designed with components which offer a useful life of more than 20 years.

**Standard 10 year warranty, extendable for up to 20 years**



#### PROTECTIONS

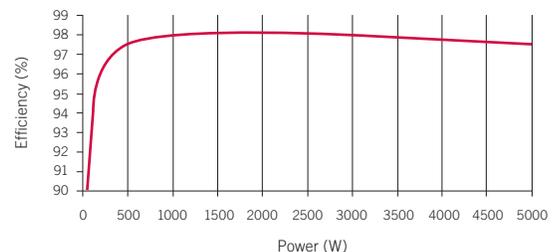
- Reverse polarity.
- Input and output overvoltage.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.

#### OPTIONAL ACCESSORIES

- Inter-inverter communication via Ethernet, GSM / GPRS or wireless.
- DC disconnect box that includes DC breaker and fuses.

#### EFFICIENCY

INGECON® SUN 5TL U  
V<sub>dc</sub> = 350 V

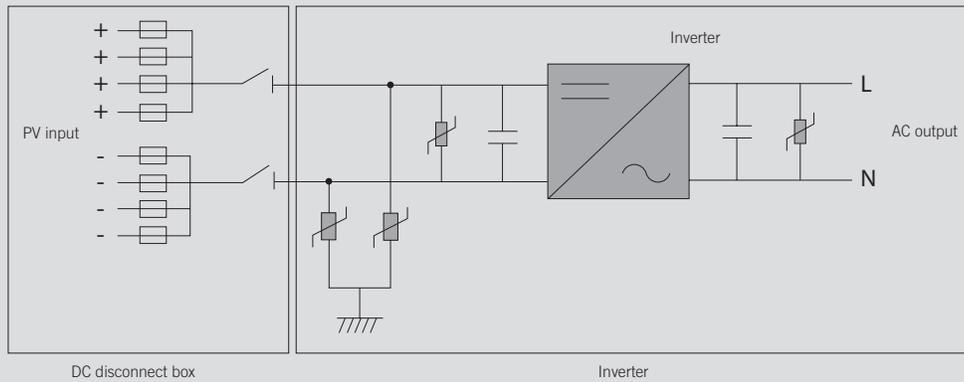


	3.6TL U	5TL U	6TL U	7.5TL U	8.6TL U	10TL U
<b>Input (DC)</b>						
Recommended PV array power range <sup>(1)</sup>	3.78 - 4.68 kWp	5.25 - 6.5 kWp	6.3 - 7.4 kWp	7.9 - 9.3 kWp	9 - 11 kWp	10.5 - 13.7 kWp
Voltage range MPP	200 - 450 V	200 - 450 V	200 - 450 V	225 - 450 V	250 - 450 V	300 - 450 V
Maximum voltage DC <sup>(2)</sup>	550 V	550 V	550 V	550 V	550 V	550 V
Maximum current DC	22 A	30 A	32 A	32 A	32 A	32 A
DC inputs	4	4	4	4	4	4
MPPT	1	1	1	1	1	1
<b>Output (AC)</b>						
Rated power AC	3.6 kW	5 kW	6 kW	7.5 kW	8.6 kW	10 kW
Maximum current AC	17.5 A	25 A	26.2 A	36.1 A	36.1 A	36.1 A
Rated voltage AC	208 / 240 / 277 V	208 / 240 / 277 V	240 / 277 V	208 / 240 / 277 V	240 / 277 V	277 V
Frequency AC	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Phi Cosine <sup>(3)</sup>	1	1	1	1	1	1
Phi Cosine adjustable	Yes. Smax=3.6 kVA	Yes. Smax=5 kVA	Yes. Smax=6 kVA	Yes. Smax=7.5 kVA	Yes. Smax=8.6 kVA	Yes. Smax=10 kVA
THD <sup>(3)</sup>	<3%	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>						
Maximum efficiency	98%	97.2%	97.7%	97.8%	97.8%	97.8%
CEC - Weighted efficiency	97.4%	96.8%	97.5%	97.1%	97%	97.5%
<b>General Information</b>						
Stand-by consumption	<10 W	<10 W	<10 W	<10 W	<10 W	<10 W
Consumption at night	<0.5 W	<0.5 W	<0.5 W	<0.5 W	<0.5 W	<0.5 W
Ambient temperature	-4°F to +150°F	-4°F to +150°F	-4°F to +150°F	-4°F to +150°F	-4°F to +150°F	-4°F to +150°F
Relative humidity (non-condensing)	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%
Protection class	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R

**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> For P<sub>out</sub>>25% of the rated power.

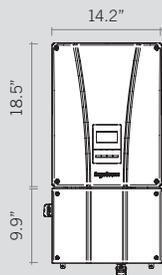
**Compliance with standards:** UL1741 CSA C22.2 n°107.1-01, IEEE 1547, IEEE 1547.1, FCC Part 15B (class A).

**5TL U**



**Size and weight**

(inches and pounds)



**3.6TL U**  
Inverter 44.09 pounds

**5TL U**  
Inverter 61.73 pounds

**6TL U**  
Inverter 61.73 pounds

**7.5TL U**  
Inverter 66.14 pounds

**8.6TL U**  
Inverter 66.14 pounds

**10TL U**  
Inverter 66.14 pounds

DC disconnect box  
10.75 pounds