### INGECON

## SUN

# 125TL U 208 Outdoor / 165TL U 275 Outdoor 200TL U 330 Outdoor / 220TL U 360 Outdoor

THE BEST
PERFORMANCE
AT MEDIUM
AND LARGE
OUTDOOR
INSTALLATIONS

Designed for ease of maintenance, capable of withstanding extreme temperatures, and featuring full electric protections as a standard supply, the INGECON® SUN Power TL U Outdoor inverters are one of the latest Ingeteam's developments. They have been especially designed for medium and large outdoor installations.

#### Easy to install and maintain

The INGECON® SUN Power TL U Outdoor inverters have been manufactured with components which offer a useful life of more than 20 years. These inverters are equipped with an advanced maximum power point tracking system (MPPT) to obtain the maximum power from the PV

array. No additional items are required and they can be manually disconnected from the grid.

### Software included

They include, 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.

### Standard 5 year warranty, extendable for up to 20 years

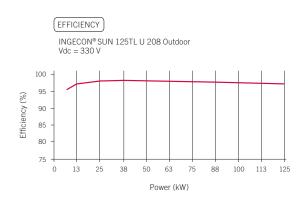
#### PROTECTIONS

- Reverse polarity.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC breakers.
- AC thermal-magnetic breaker.
- DC, AC surge arresters, class II.

### OPTIONAL ACCESSORIES

- Inter-inverter communication via Ethernet. For other communications, please check availability.
- DC fuses.
- Equipped with a synchronous kit that enables to connect several inverters to the same transformer.









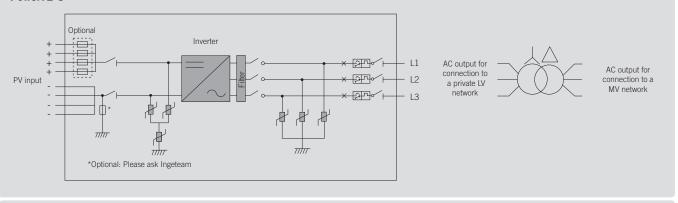


|   | 125TL U 208 Outdoor           | 165TL U 275 Outdoor           | 200TL U 330 Outdoor           | 220TL U 360 Outdoor           |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Input (DC)                                      |                               |                               |                               |                               |
| Recommended PV array power range <sup>(1)</sup> | 127 - 168 kWp                 | 167 - 221 kWp                 | 203 - 268 kWp                 | 223 - 295 kWp                 |
| Voltage range MPP                               | 330 - 820 V                   | 440 - 820 V                   | 525 - 820 V                   | 570 - 820 V                   |
| Maximum voltage DC(2)                           | 1,000 V                       | 1,000 V                       | 1,000 V                       | 1,000 V                       |
| Maximum current DC                              | 390 A                         | 390 A                         | 390 A                         | 390 A                         |
| DC inputs                                       | 4                             | 4                             | 4                             | 4                             |
| MPPT  | 1                             | 1                             | 1                             | 1                             |
| Output (AC)                                     |                               |                               |                               |                               |
| Rated power AC <sup>(3)</sup>                   | 125 kW                        | 165 kW                        | 200 kW                        | 220 kW                        |
| Maximum current AC                              | 347 A                         | 347 A                         | 350 A                         | 352 A                         |
| Rated voltage AC                                | 208 V IT System               | 275 V IT System               | 330 V IT System               | 360 V IT System               |
| Frequency AC                                    | 50 / 60 Hz                    |
| Phi Cosine <sup>(4)</sup>                       | 1                             | 1                             | 1                             | 1                             |
| Phi Cosine adjustable                           | Yes. Smax=125 kVA             | Yes. Smax=165 kVA             | Yes. Smax=200 kVA             | Yes. Smax=220 kVA             |
| THD <sup>(5)</sup>                              | <3%                           | <3%                           | <3%                           | <3%                           |
| Efficiency                                      |                               |                               |                               |                               |
| Maximum efficiency                              | 98.4%                         | 98.6%                         | 98.7%                         | 98.7%                         |
| CEC   | 97.5%                         | 98%                           | 98.5%                         | 98.5%                         |
| General Information                             |                               |                               |                               |                               |
| Air cooling                                     | 15.2 ft³/s                    | 15.2 ft <sup>3</sup> /s       | 15.2 ft <sup>3</sup> /s       | 15.2 ft³/s                    |
| Stand-by consumption <sup>(6)</sup>             | 30 W                          | 30 W                          | 30 W                          | 30 W                          |
| Consumption at night                            | 1 W                           | 1 W                           | 1 W                           | 1 W                           |
| Ambient temperature                             | -4°F to 149°F (-20°C to 65°C) |
| Max. altitude <sup>(7)</sup>                    | 9,842 ft (3,000 m)            |
| Relative humidity (non-condensing)              | 0 - 95%                       | 0 - 95%                       | 0 - 95%                       | 0 - 95%                       |
| Protection class                                | NEMA 3R                       | NEMA 3R                       | NEMA 3R                       | NEMA 3R                       |

Notes: (1) Depending on the type of installation and geographical location (2) Must not be exceeded under any circumstances. Consider the voltage increase of the 'Voc' at low temperatures (3) AC power for 122°F (50°C) ambient temperature. The output power will be reduced at the rate of 1% for each 1°F (0.56°C) of increase (4) For Pout>25% of the rated power (5) For Pout>25% of the rated power and voltage in accordance with IEEE 1547.1 (6) Consumption from PV field (7) Over 3,280 ft (1,000 m) temperature for rated power (122°F / 50°C) is reduced 2.42 °F each 1,000 ft.

\*\*Compliance with standards: UL 1741, IEEE 1547, NEC 690, ANSI/NEMA 70, CE, CODE, FCC Part 15B (class A).

### PowerTL U



### Size and weight

(inches and pounds)

