

**THE BEST
PERFORMANCE
AT MEDIUM
AND LARGE
OUTDOOR
INSTALLATIONS**

125 U 208 Outdoor / 125 U 480 Outdoor

Designed for ease of maintenance, capable of withstanding extreme temperatures, and featuring full electric protections as a standard supply, the INGECON®SUN Power 125 U Outdoor inverter is one of the latest Ingeteam's developments. It has been especially designed for medium and large outdoor installations.

Easy to install and maintain

The INGECON®SUN Power 125 U inverter has been manufactured with components which offer a useful life of more than 20 years. This inverter is 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 it can be manually disconnected from the grid.

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 datalogger 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

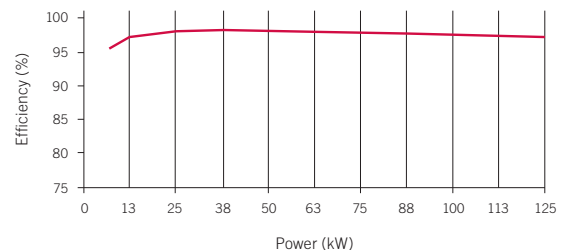
- Reverse polarity.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- AC circuit breaker.
- DC breaker.
- AC and DC surge arresters, type 2.
- Plus / minus grounding PV modules.
- Galvanic isolation between the DC and AC sides.

OPTIONAL ACCESSORIES

- Inter-inverter communication via Ethernet. For other communications, please check availability.
- DC fuses.
- Motorization of the AC breaker.
- Auxiliary services kit.
- Low voltage ride-through kit.
- -30 °C (-22 °F) operating kit.
- Night supply.
- INGECON® SUN String Control for PV array string current monitoring.

EFFICIENCY

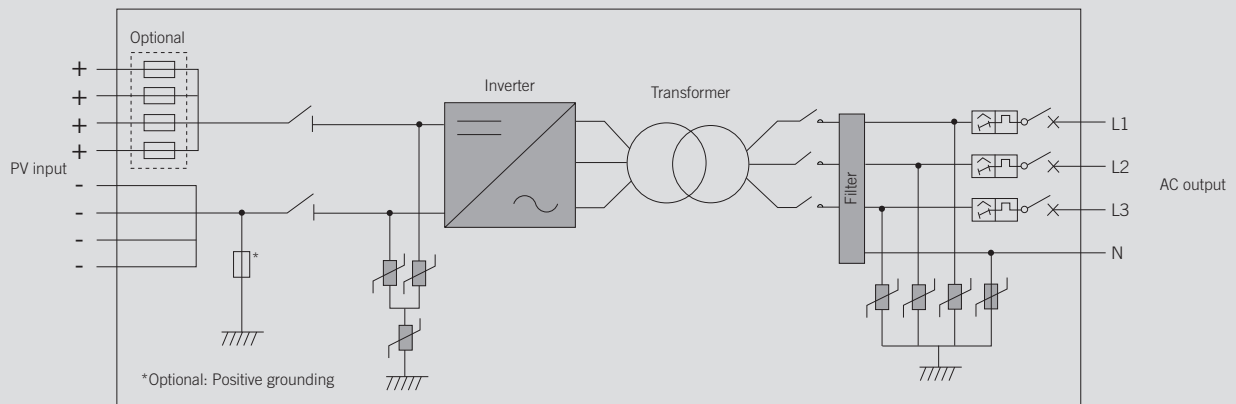
INGECON®SUN 125 U 208 Outdoor
V_{dc} = 350 V



	125 U 208 Outdoor	125 U 480 Outdoor
Input (DC)		
Recommended PV array power range ⁽¹⁾	128.5 - 167.1 kWp	129.2 - 168 kWp
Voltage range MPP	330 - 820 V	330 - 820 V
Maximum voltage ⁽²⁾	1,000 V	1,000 V
Maximum current	390 A	390 A
Inputs	4	4
MPPT	1	1
Output (AC)		
Rated power ⁽³⁾	125 kW	125 kW
Maximum current	347 A	150 A
Rated voltage	208 V	480 V
Frequency	50 / 60 Hz	50 / 60 Hz
Phi Cosine ⁽⁴⁾	1	1
Phi Cosine adjustable	Yes. Smax=125 kVA	Yes. Smax=125 kVA
THD ⁽⁵⁾	<3%	<3%
Efficiency		
Maximum efficiency	98.4%	97.3%
CEC - Weighted efficiency	96.5%	96.5%
General Information		
Air cooling	15.2 ft ³ /s	15.2 ft ³ /s
Stand-by consumption ⁽⁶⁾	30 W	30 W
Consumption at night	1 W	1 W
Ambient temperature	-4 °F to 149 °F (-20 °C to 65 °C)	-4 °F to 149 °F (-20 °C to 65 °C)
Max. altitude ⁽⁷⁾	9,842 ft (3,000 m)	9,842 ft (3,000 m)
Relative humidity (non-condensing)	0 - 95%	0 - 95%
Protection class	NEMA 3R	NEMA 3R
Marking	CE, ETL	
EMC and security standards	UL1741, FCC Part 15, IEEE C37.90.1, IEEE C37.90.2	
Grid connection standards	IEC 62116, UL1741, IEEE1547, IEEE1547.1, NEC CODE	

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 P_{out}>25% of the rated power ⁽⁵⁾ For P_{out}>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.

Power U Outdoor



Size and weight
(inches and lbs)

