

THE BEST PERFORMANCE AT MEDIUM AND LARGE INSTALLATIONS

100 U 208 Indoor / 100 U 480 Indoor

The INGECON® SUN Power 100 U inverter is designed for ease of maintenance, offering high efficiency at high temperatures, and featuring full electric protections as a standard supply. It is designed for medium and large power roof installations and also for ground-based multi-megawatt installations, under indoor conditions. This inverter is equipped with an advanced maximum power point tracking system (MPPT) to extract the maximum power from the PV array.

Easy to install and maintain

The INGECON® SUN Power 100 U inverter has been designed with components which offer a useful life of more than 20 years. 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 data logger for up to 3 months data storage, which can be accessed from a remote PC.

Standard 5 year warranty, extendable for up to 20 years

PROTECTIONS

- Galvanic isolation between the DC and AC side.
- Reverse polarity.
- Output short-circuits and overloads.

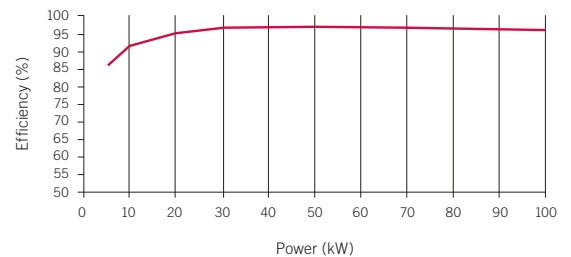
OPTIONAL ACCESSORIES

- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC breaker.
- DC fuses.
- AC thermal magnetic breaker.
- DC surge arresters, class II.
- AC surge arresters, class II.
- Plus/minus grounding PV modules.
- Inter-inverter communication via Ethernet. For other communications, please check availability.



EFFICIENCY

INGECON® SUN 100 U 480 Indoor
Vdc = 300 V

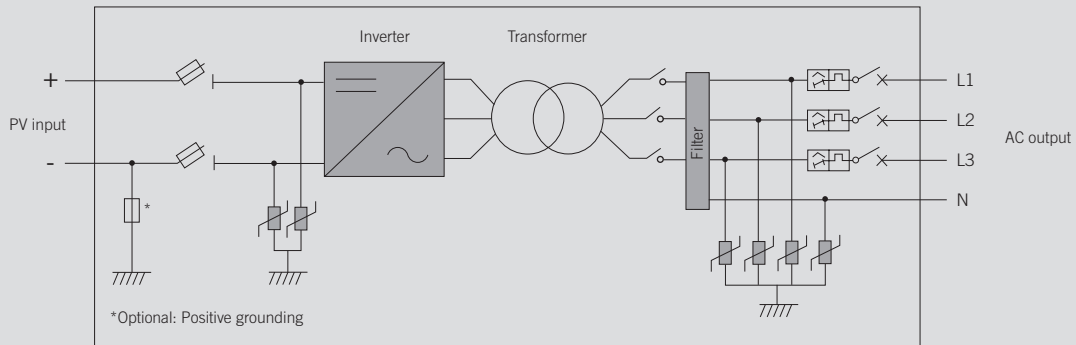


	100 U 208 Indoor	100 U 480 Indoor
Input (DC)		
Recommended PV array power range ⁽¹⁾	104 - 130 kWp	104 - 130 kWp
Voltage range MPP	300 - 550 V	300 - 550 V
Maximum voltage DC ⁽²⁾	600 V	600 V
Maximum current DC	350 A	350 A
DC inputs	4	4
MPPT	1	1
Output (AC)		
Rated power AC ⁽³⁾	100 kW	100 kW
Maximum current AC	316 A	137 A
Rated voltage AC	208 V	480 V
Frequency AC	60 Hz	60 Hz
Phi Cosine ⁽⁴⁾	1	1
Phi Cosine adjustable	Yes. Smax=100 kVA	Yes. Smax=100 kVA
THD ⁽⁵⁾	<3%	<3%
Efficiency		
Maximum efficiency	95.8%	96%
CEC - Weighted efficiency	95%	95.5%
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	5°F to 131°F (-15°C to 55°C)	5°F to 131°F (-15°C to 55°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 1	NEMA 1

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 113°F (45°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 (113°F / 45°C) is reduced 2.42 °F each 1,000 ft.

Compliance with standards: UL 1741, CSA C22.2 n° 107.1-01, IEEE 1547, IEEE 1547.1, FCC Part 15B (class A).

Power U



Size and weight (inches and pounds)

