INGECON SUN

Power
With transformer

50 / 60 / 70 / 80 / 90 / 100

HIGH EFFICIENCY IN MULTI-MEGAWATT SYSTEMS

Three phase inverter for medium and large power outputs on-roof applications and also for ground-based multi-megawatt applications.

Maximum efficiency at high temperatures
Advanced maximum power point tracker system (MPPT). Low voltage ride through capability, active power control and reactive power control. Suitable for medium voltage installations.

Easy to install
No additional items are required. Manual disconnection from the grid. Complete electrical protection equipment supplied as standard.

Easy to maintain
Internal datalogger for up to 3 months data storage. Control from either a remote PC or on-site from the inverter front key pad. Status and alarm LED indicators. LCD Screen. Useful life of more than 20 years.

Software included
Included at no extra cost are the INGECON® SUN Manager, INGECON® SUN Monitor and its iSun Monitor smartphone version for monitoring and recording the inverter data over the internet.

Standard 5 year warranty, extendable for up to 25 years

PROTECTIONS

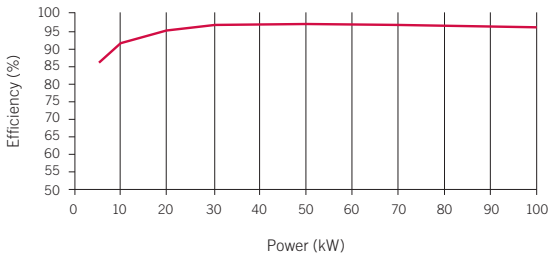
- Galvanic isolation between the DC and AC side.
- Reverse polarity.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC breaker.
- DC fuses.
- AC thermal magnetic breaker.
- DC surge arresters type 2.
- AC surge arresters type 2.

OPTIONAL ACCESSORIES

- Inter-inverter communication via RS-485, Ethernet or Bluetooth.
- GSM/GPRS remote communication.
- PV array string current monitoring. INGECON® SUN String Control.
- Grounding kit if required for the PV modules.

EFFICIENCY

INGECON® SUN 100
Vdc = 450 V



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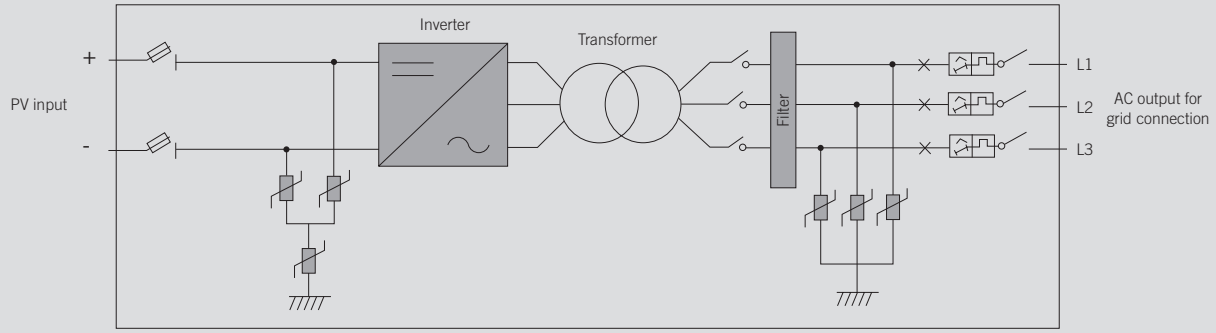
Ingeteam

	50	60	70	80	90	100
Input (DC)						
Recommended PV array power range[1]	52 - 65 kWp	63 - 78 kWp	73 - 91 kWp	83 - 104 kWp	93 - 117 kWp	104 - 130 kWp
Voltage range MPP	405 - 750 V	405 - 750 V	405 - 750 V	405 - 750 V	405 - 750 V	405 - 750 V
Maximum voltage DC[2]	900 V	900 V	900 V	900 V	900 V	900 V
Maximum current DC	130 A	156 A	182 A	208 A	234 A	260 A
DC inputs	4	4	4	4	4	4
MPPT	1	1	1	1	1	1
Output (AC)						
Rated power AC[3]	55 kW	66 kW	77 kW	88 kW	99 kW	110 kW
Maximum current AC	93 A	118 A	131 A	156 A	161 A	161 A
Rated voltage AC	400 V	400 V	400 V	400 V	400 V	400 V
Frequency AC	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Phi Cosine[4]	1	1	1	1	1	1
Phi Cosine adjustable	Yes. Smax=55 kVA	Yes. Smax=66 kVA	Yes. Smax=77 kVA	Yes. Smax=88 kVA	Yes. Smax=99 kVA	Yes. Smax=110 kVA
THD[5]	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Maximum efficiency	96.3%	96.4%	97.2%	97.5%	96.9%	96.8%
Euroefficiency	94.3%	94.7%	96.1%	96.2%	95.8%	95.7%
General Information						
Air cooling	2,600 m^3/h	2,600 m^3/h	2,600 m^3/h	2,600 m^3/h	2,600 m^3/h	2,600 m^3/h
Stand-by consumption[6]	30 W	30 W	30 W	30 W	30 W	30 W
Consumption at night	1 W	1 W	1 W	1 W	1 W	1 W
Ambient temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
Relative humidity (non-condensing)	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%
Protection class	IP20	IP20	IP20	IP20	IP20	IP20

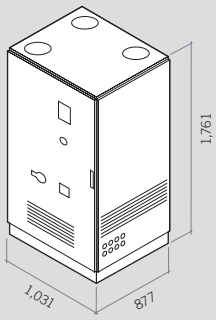
Notes: [1] Depending on the type of installation and geographical location [2] Must not be exceeded under any circumstances. Consider the voltage increase of the 'Voc' at low temperatures [3] AC Power for 40°C ambient temperature. For each °C of increase, the output power will be reduced at the rate of 1.8% [4] For P_{out}>25% of the rated power [5] For P_{out}>25% of the rated power and voltage in accordance with IEC 61000-3-4 [6] Consumption from PV field.

Compliance with standards: CE, IEC61000-6-2, IEC61000-6-4, EN50178, RD1699/2011, P.O.12.3, VDE-AR-N-4105, VDE0126-1-1, CEI11-20, CEI0-21, Allegato 70 TERNA, Arrêté 23-04-2008, MV Guideline BDEW, G59/2.

Power



Size and weight (mm)



50 / 60
900 kg.

70 / 80
1,026 kg.

90 / 100
1,162 kg.