INGECON SUN

Power
With transformer

50 / 60 / 70 / 80 / 90 / 100

HIGH PERFORMANCE 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). Suitable for medium voltage installations. It stands voltage dips, it controls reactive power and other requirements.

Pure three phase conversion stage
Balanced output in all three AC phases. No additional equipment required for simultaneous disconnection.

Easy to install
No additional items are required. Manual disconnection from the grid.

Complete electrical protection equipment supplied as standard.

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

Softwares included
It includes, without any extra cost, the softwares Ingecon® Sun Manager and IngeRAS™ PV for displaying and recording the data directly from the inverter through Internet.

Standard 5 year warranty, extendable for up to 25 years.

PROTECTIONS

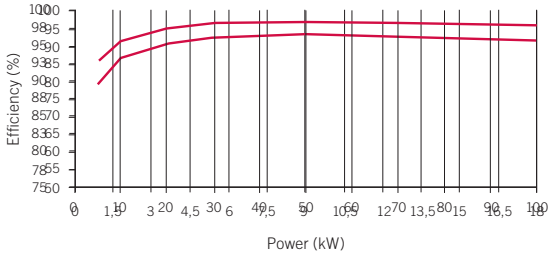
- Galvanic isolation between the DC and AC side.
- Reverse polarity.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC breaker.
- DC fuses.
- AC thermal magnetic breaker.
- DC surge arresters.
- AC surge arresters.

OPTIONAL ACCESSORIES

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

PERFORMANCE

Ingecon® Sun 100
Vdc = 450 V



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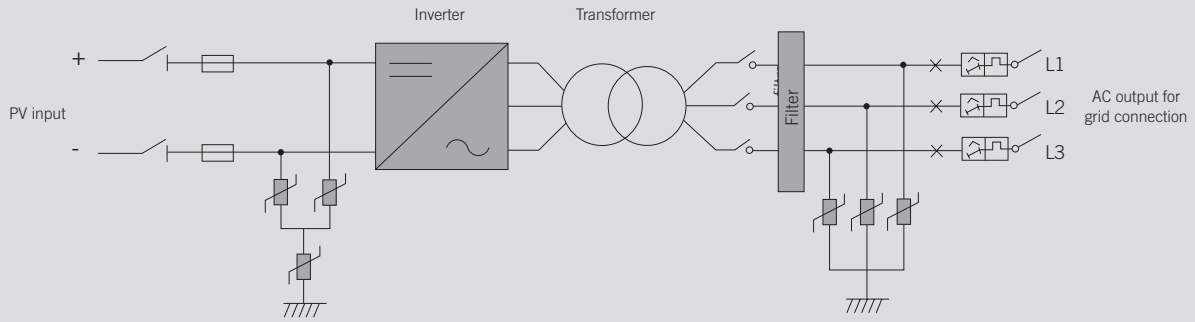
Ingeteam

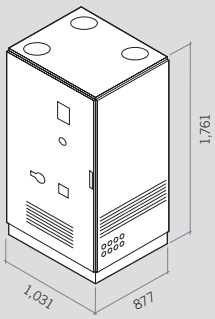
	50	60	70	80	90	100
Input (DC)						
Recommended PV array power range[1]	52 - 65 kWp	63 - 78 kWp	73 - 91 kWp	83 - 104 kWp	93 - 117 kWp	104 - 130 kWp
Voltage range MPP	405 - 750 V	405 - 750 V	405 - 750 V	405 - 750 V	405 - 750 V	405 - 750 V
Maximum voltage DC[2]	900 V	900 V	900 V	900 V	900 V	900 V
Maximum 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 HT[3]	50 kW	60 kW	70 kW	80 kW	90 kW	100 kW
Rated power AC HP[4]	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[5]	1	1	1	1	1	1
Phi Cosine adjustable	+/-0.9 to Pnom	+/-0.9 to Pnom	+/-0.9 to Pnom	+/-0.9 to Pnom	+/-0.9 to Pnom	+/-0.9 to Pnom
THD[6]	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Maximum efficiency	96.3%	96.40%	97.20%	97.50%	96.90%	96.80%
Euroefficiency	94.30%	94.70%	96.10%	96.20%	95.80%	95.70%
General Information						
Air cooling	2,600 m³/h	2,600 m³/h	2,600 m³/h	2,600 m³/h	2,600 m³/h	2,600 m³/h
Stand-by consumption[7]	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	-20ºC to +65ºC	-20ºC to +65ºC	-20ºC to +65ºC	-20ºC to +65ºC	-20ºC to +65ºC	-20ºC to +65ºC
Relative humidity	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%
Protection class	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20

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] Up to 45ºC ambient temperature, Pmax= 110% Pnom for non permanent transients [4] Up to 40ºC ambient temperature, Pmax = Pnom [5] For Pout > 25% of the rated power. Possibility to modify the Phi Cosine [6] For Pout > 25% of the rated power and voltage in accordance with IEC 61000-3-4 [7] 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, Reglamento MT BDEW, VDE0126-1-1, CEI11-20, CEI0-21, Allegato 17 TERNA, Arrêté 23-04-2008.
HT Mode (high temperature) Rated outputs at 45ºC **HP Mode (high power)** Rated outputs at 40ºC



Size and weight (mm)



50 / 60
900 kg.

70 / 80
1,026 kg.

90 / 100
1,162 kg.