INGECON SUN

PowerMaxter
320 Vac

MAXIMUM PERFORMANCE FOR LARGE MULTI-MEGAWATT PLANTS

"MASTER - SLAVE" CONFIGURATION

365 X320 Indoor / 550 X320 Indoor / 730 X320 Indoor

For maximum plant output
During periods of low irradiance, the output is increased by up to 1.8 points.

Ease of maintenance
Load distribution between the various power stages. This makes it possible to achieve a useful life of more than 20 years.

Compliance with the most exacting standards and regulations
DC/AC protection mechanisms. RS-485 communications.

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

- Reverse polarity.
- Output short-circuit and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC load breaker.
- Up to 16 DC fuses per pole.
- AC thermal magnetic breaker.
- AC surge arresters.
- DC surge arresters.

OPTIONAL ACCESSORIES

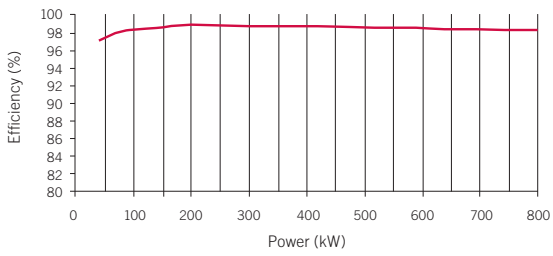
- Inter-inverter communication via Ethernet and Bluetooth.
- Modem for GSM/GPRS remote communication.
- Monitoring of the group of currents at the DC input.
- Blown fuse sensor at the DC input.
- Grounding kit.
- 1,000 volt kit.
- Wattmeter on the AC side.
- Remote tripping of the AC protection.

MASTER-SLAVE ADVANTAGES

- High performance.
- Low maintenance costs. Same kit for the 4 inverter blocks.
- Modular power stages. Simple maintenance.
- Fast reception of spares thanks to the use of lightweight, compact components.
- In the event of a block breakdown, less than ¼ of the inverter power is lost.
- Low installation and connection costs, thanks to the inverter compactness.
- Simple component replacement, built-in diagnostic systems.
- With a cooling system: guaranteed rated power up to 40/45 °C.
- Built-in LCD screen for monitoring and RS-485 communications.
- Built-in Datalogger for up to 3 months data storage.

EFFICIENCY

Ingecon® Sun 730 X320 Indoor
Vdc = 550 V



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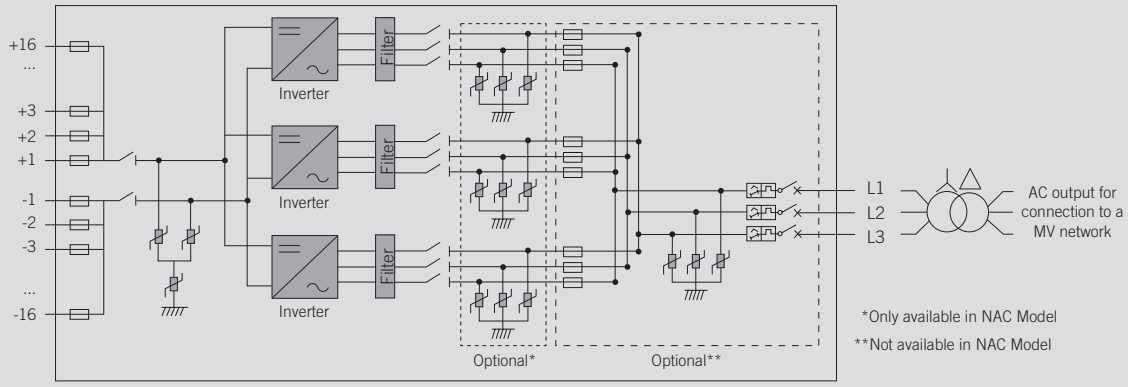
Ingeteam

	365 X320 Indoor	550 X320 Indoor	730 X320 Indoor
Input (DC)			
Recommended PV array power range[1]	409 - 475 kWp	617 - 715 kWp	819 - 949 kWp
Voltage range MPP	540 - 820 V	540 - 820 V	540 - 820 V
Maximum voltage DC[2]	920 V	920 V	920 V
Maximum current DC	800 A	1,200 A	1,600 A
DC inputs	8	12 (until 16)	12 (until 16)
MPPT	1	1	1
Current per input	from 100 to 200 A	from 100 to 200 A	from 100 to 200 A
Output (AC)			
Rated power AC[3]	401 kW	605 kW	803 kW
Maximum current AC	736 A	1,104 A	1,472 A
Rated voltage AC	320 V IT System	320 V IT System	320 V IT System
Frequency AC	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Phi Cosine[4]	1	1	1
Phi Cosine adjustable	+/-0.9	+/-0.9	+/-0.9
THD[5]	<3%	<3%	<3%
Efficiency			
Maximum efficiency	98.7%	98.7%	98.7%
Euroefficiency	98.5%	98.5%	98.5%
CEC	97.9%	97.9%	97.9%
General Information			
Air cooling	2,670 m³/h	4,640 m³/h	5,340 m³/h
Stand-by consumption[6]	60 W	90 W	120 W
Consumption at night	<5 W	<5 W	<5 W
Ambient temperature	-20ºC to +65ºC	-20ºC to +65ºC	-20ºC to +65ºC
Max. altitude without derating[7]	1,000 m	1,000 m	1,000 m
Relative humidity	0 - 95%	0 - 95%	0 - 95%
Protection class	IP 20	IP 20	IP 20

Notes: [1] Depending on the type of installation and geographical location. Data for STC conditions [2] It can be extended to 1000 V with the 1000 V kit. Consider the voltage increase of the 'Voc' at low temperatures Ampliable a 1000 V con el kit 1000 voltios [3] AC Power for 40ºC ambient temperature. For each ºC of increase, the output power will be reduced a 2% [4] For P_{out}>25% of the rated power. Possibility to modify the Phi Cosine [5] For P_{out}>25% of the rated power and voltage in accordance with IEC 61000-3-4 [6] Consumption from PV field [7] For higher altitudes, please contact Ingeteam.

Compliance with standards: CE, IEC61000-6-2, IEC61000-6-4, EN50178, RD661/2007, P.O.12.3, MV Guideline BDEW, CEI11-20, CEI0-16, Allegato 17 TERNA, Arrêté 23-04-2008, IEEE1547, FCC Part15.

550 X320 Indoor



Size and weight (mm)