

ALL-IN-ONE SOLUTION

for decentralised solar PV plants
with multi-MPPT string inverters

Ingeteam

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solar PV plants
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string inverters

- INGECON® SUN 350TL M12
PV INVERTERS
- INGECON® SUN
STRING STATION
 - AC COMBINER BOX
 - STEP-UP TRANSFORMER
 - MV SWITCHGEAR
 - AUXILIARY SERVICES PANEL
 - AUXILIARY SERVICES
TRANSFORMER



INGECON® SUN 350TL M12

Multi-MPPT string inverter with the maximum power density

Greater cost-effectiveness

Thanks to its greater output power, the new INGECON® SUN 350TL M12 allows to drastically reduce the number of inverters required for designing a PV power plant. Thus, it minimises the labour cost and reduces the global cabling cost.

Moreover, it does not require DC combiner boxes, nor AC combiner boxes, ensuring the minimum possible CAPEX (Capital Expenditures). Furthermore, its string inverter philosophy permits an easy and immediate replacement that does not require qualified technicians.

Higher flexibility and power density

The highest flexibility thanks to its maximum DC voltage (1,500 V) and to its wide voltage range MPP (850-1,300V). Awesome power density, with up to 350 kW.

Long-lasting and rugged design

Aluminium casing, especially conceived for indoor and outdoor applications (IP66). The INGECON® SUN 350 TL M12 inverters have been designed to guarantee a long life expectancy and to withstand extreme temperatures.

Wi-Fi communication as standard

The inverter features Wi-Fi communication as standard. This Wi-Fi interface is used to commission the inverter through the INGECON® SUN Monitor App, available for iOS and Android. A wizard guides the user through the entire start-up process. Moreover, the Wi-Fi interface allows connecting the inverter to any Wi-Fi network available in the plant for monitoring purposes.

SPE (Single Pair Ethernet)

The inverter features SPE communication as standard. The SPE offers high-speed IP communication without the 100-meter distance limitation of standard Ethernet. Using SPE, the communication with the inverters can be established up to 1,000 meters. Moreover, these inverters enables daisy chain connection. Thus, several inverters can be connected to the same SPE line. The versatility and possibilities offered by the SPE are an important improvement at the plant's communication network.

Remote monitoring

The inverter can be monitored with the www.ingeconsunmonitor.com website or with the INGECON® SUN Monitor App.

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INGECON® SUN 350TL M12

Fully equipped

In order to achieve the maximum performance with the maximum cost-effectiveness, the INGECON® SUN 350TL M12 inverter is supplied totally equipped with all the electrical protections.

Integrated components

Photovoltaic connectors	✓
DC switch (3 units)	✓
DC surge arresters, type II	✓
AC surge arresters, type II	✓
Strings current metering kit	✓
Wi-Fi communication	✓
SPE (Single Pair Ethernet) communication	✓

MAIN FEATURES

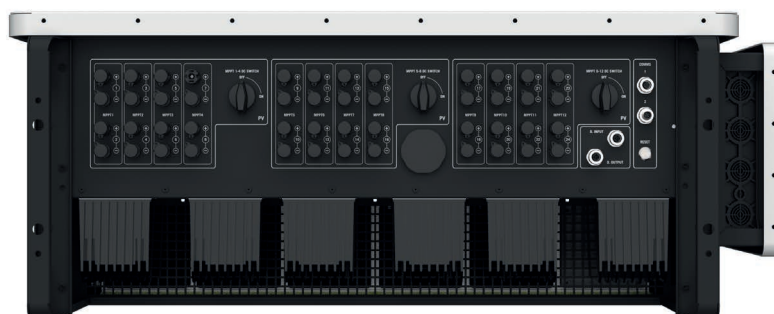
- 12 MPPTs.
- PID recovery as standard.
- Reactive power injection at night as standard.
- Low-voltage ride-through capability.
- Reactive power capability.
- Compatible with external Cloud Connect software.
- 99.05% maximum efficiency.
- Single Pair Ethernet and Wi-Fi communications supplied as standard.
- Integrated Webserver.
- Software INGECON® SUN Monitor for PV plant monitoring.
- Suitable for indoor and outdoor installations (IP66).
- High temperature performance.
- One digital input and one digital output.

PROTECTIONS

- Shortcircuits and overloads at the output.
- Anti-islanding with automatic disconnection.
- Insulation faults.
- AC overvoltages with type II surge arresters.
- DC overvoltages with type II surge arresters.

BENEFITS

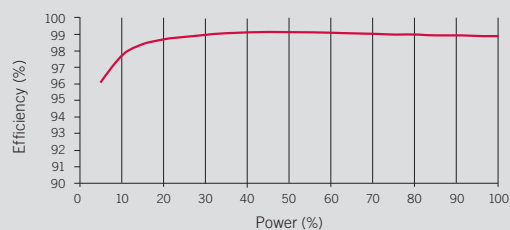
- Greater power density.
- Greater cost-effectiveness thanks to the cabling cost reduction.
- High availability compared to central inverters.
- High efficiency rates.
- Easy maintenance.



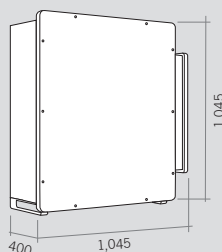
350TL M12	
Input (DC)	
Operating voltage range	500 - 1,500 V
MPP voltage range	850 - 1,300 V
Maximum voltage	1,500 V
Maximum current per MPPT	45 A x 12
Number of inputs per MPPT	2
Number of MPPTs	12
Output (AC)	
Rated power @30 °C / 40 °C / 50 °C	346.4 kVA / 329.1 kVA / 296.2 kVA
Maximum current @30 °C / 40 °C / 50 °C	250 A / 237.5 A / 213.75 A
Rated voltage	3 / PE, 800 V
Frequency	50 / 60 Hz
Type of grid	IT
Power factor	1
Power factor adjustable ⁽¹⁾	Yes, ±0,8
THD (Total Harmonic Distortion) ⁽²⁾	<3%
Efficiency	
Maximum efficiency	99.05%
Euroefficiency	98.60%
General information	
Cooling system	Forced ventilation
Air flow	900 m³/h
Stand-by consumption	25 W
Operation temperature	-30 °C to 60 °C
Relative humidity (non-condensing)	0 - 100%
Protection class	IP66 / NEMA 4
Residual current monitoring unit	Yes
Maximum operating altitude	4,000 m
Connection	AC connection: max. cross section: 400 mm² (one cable) DC connection: 6 mm² MC4-Evo2 (10 mm² optional)
Marking	CE
EMC and safety standards	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, EN 62109-1, EN 62109-2, IEC62103, EN 50178, FCC Part 15, IEC60068-2-1:2007, IEC60068-2-2:20007, IEC60068-2-14:2009, IEC60068-2-30:2005, IEC62116, IEC61683 y EN50530
Grid connection standards	DIN V VDE V 0126-1-1, EN 50439, EN 50549, CEI 0-21, CEI 0-16 VDE-AR-N 4105:2011-08, P.O.12.3, BDEW, IEC 62116, IEC 61727, UNE 206007-1, ABNT NBR 16149, ABNT NBR 16150, Brazilian Grid Code, South African Grid Code, Chilean Grid Code, DEWA 2.0, Jordanian Grid Code, G99, VDE-AR-4110, NTS de REE, Directive EU 2016/631

Notes: ⁽¹⁾ Extended adjustment range for nominal working points ⁽²⁾ For rated AC power and voltage in accordance with IEC 61000-3-4.

Efficiency INGECON® SUN 350TL M12



Size and weight (mm)



350TL M12
125 kg.

ALL-IN-ONE SOLUTION

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INGECON[®] SUN StringStation



MV solution up to 11.2 MW

Medium voltage solution for decentralised PV plants with 1,500 V string inverters

MV station designed to connect Ingeteam's 1,500 V string inverters to a medium voltage grid.

String inverter optimization

The StringStation has been conceived to enable and optimize the use of Ingeteam's INGECON[®] SUN 350TL M12 inverters at utility scale, ensuring a perfect connection between the PV power plant and the grid. This turnkey solution is capable of connecting up to 11.2 MW of 1,500 V string inverters to a medium voltage grid.

Available worldwide

The INGECON[®] SUN StringStation can be marketed and installed everywhere in the world, as it is supplied totally integrated and it is easily transportable as a Plug & Play solution.

Equipped with everything necessary

It is supplied with the low-voltage string inverter protections, auxiliary services, step-up transformer and medium-voltage switchgear. Available with SPE (Single Pair Ethernet) and Wi-Fi to communicate with the PV inverters.

The SPE communication allows a high-speed, flexible and ideal option for long distance communication, with no need of external switches or other communication devices.

Maximum cost-effectiveness

The INGECON[®] SUN StringStation is a standard solution designed to maximize the compactness and cost-effectiveness of the overall equipment. All the elements are prepared to withstand adverse weather conditions. Moreover, they are supplied pre-connected and pre-integrated into a skid in order to guarantee a Plug & Play installation.

FEATURES

- Output power up to 11.2 MW at 30 °C.
- Compatible with INGECON[®] SUN 350TL M inverters.
- Available up to 34.5 kV output voltage.
- Available with outdoor-mounted hermetically-sealed LV / MV transformer (up to 11.2 MVA).
- IP54-protected MV Switchgear.
- Plug & Play solution.
- Maximum reliability, higher safety.
- Reduced maintenance.
- Relative humidity (non-condensing): 0-100%.
- Max. installation altitude: 4,000 meters above sea level.
- UPS for auxiliary services.
- SPE (Single Pair Ethernet) and Wi-Fi to communicate with the PV inverters.

TRANSFORMER STATION

to connect up to 11.2 MW of string inverters to a medium voltage grid.

Maximum compactness and cost-effectiveness.

AC COMBINER BOX

- Scalable system thanks to its modular design.
- Forced air ventilation.
- General LV protection with AC fuses for each inverter and a general circuit breaker.
- HV surge arresters.

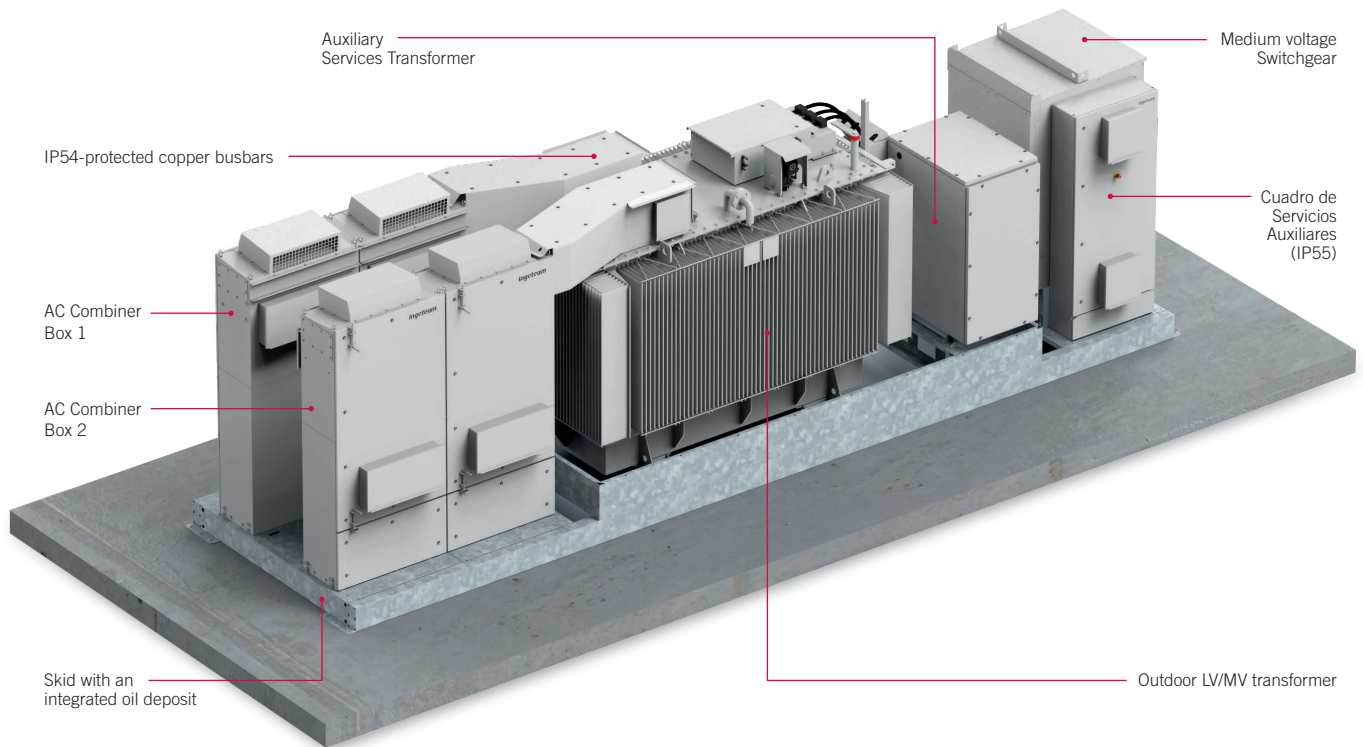
STANDARD EQUIPMENT

- Step-up transformer with reduced power losses.
- 1L1C MV switchgear.
- Protection relay included in the transformer.
- MV protection with circuit breaker.
- Oil deposit integrated in the skid.
- Filtering kit in the oil deposit.

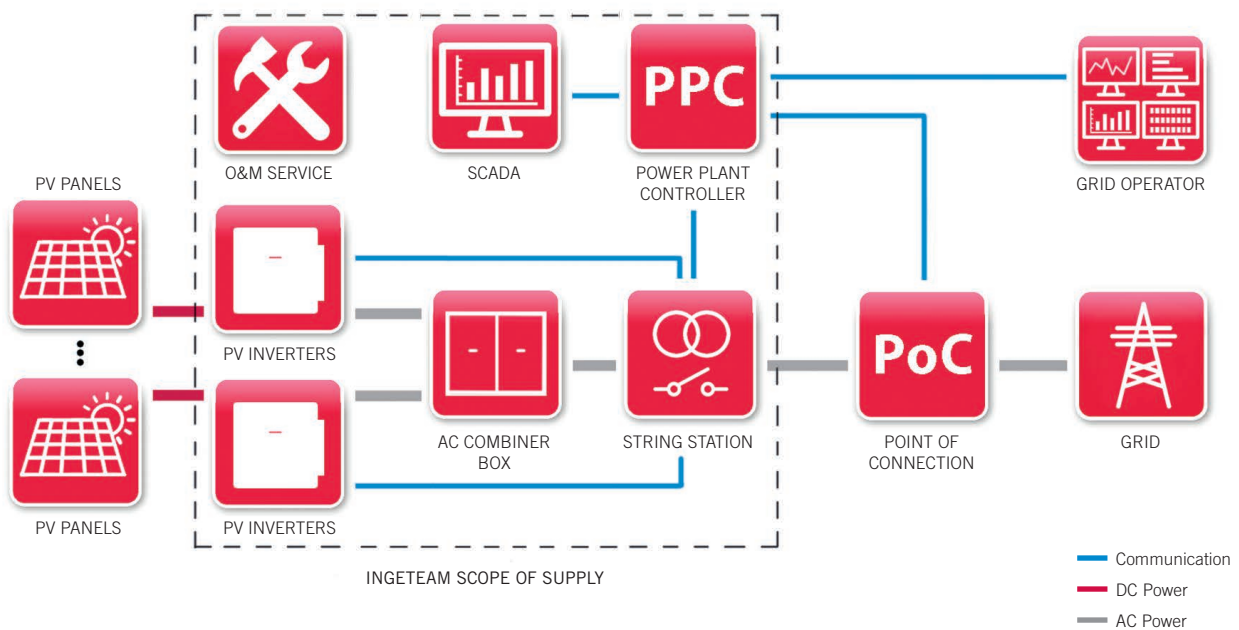
OPTIONAL ACCESSORIES

- 2L1C MV switchgear.

COMPONENTS



PV PLANT CONFIGURATION

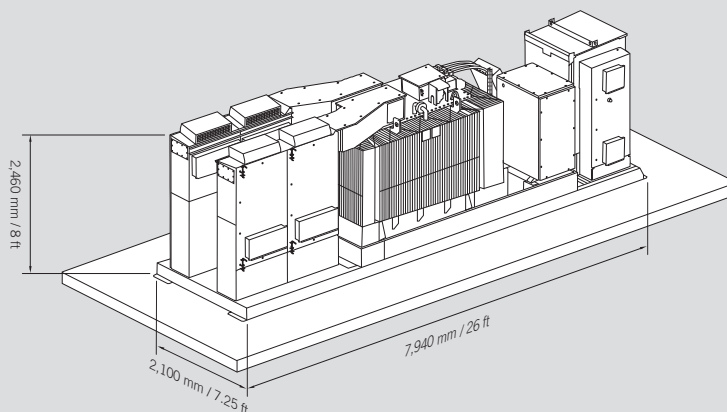


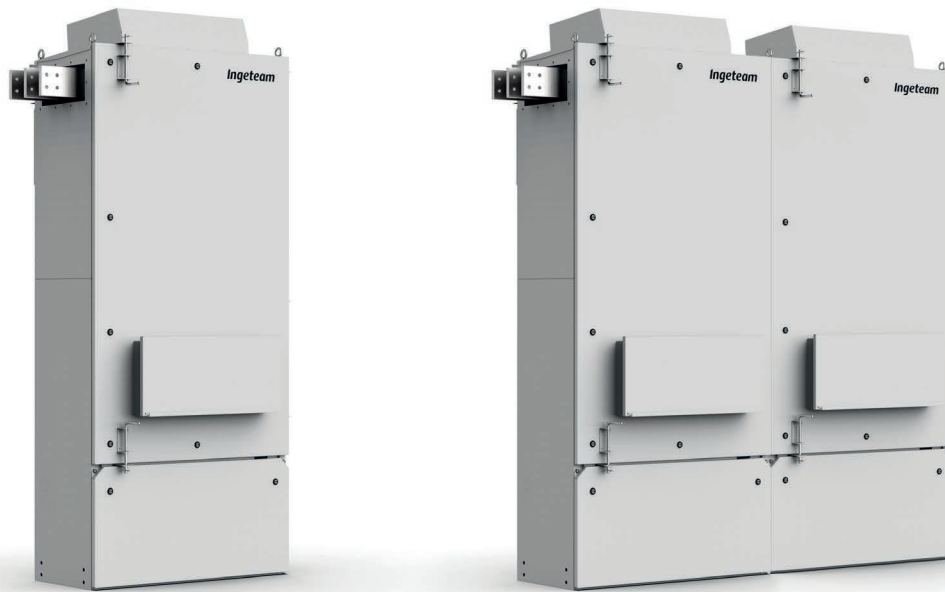
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INGECON® SUN StringStation

	SST 1050	SST 2100	SST 3150	SST 4200	SST 5600	SST 8400	SST 11200
AC Combiner box							
Model:							
- 1,500 A (up to 6 inverters)	✓	✓					
- 3,000 A (up to 12 inverters)			✓	✓		✓✓	
- 4,000 A (up to 16 inverters)					✓		✓✓
Rated power @ 30 °C	1,039.2 kVA	2,078.4 kVA	3,117.6 kVA	4,157 kVA	5,542.4 kVA	8,313.6 kVA	11,084.8 kVA
Max. number of inverters	3	6	9	12	16	24	32
AC current @ 30 °C	750 A	1,500 A	2,250 A	3,000 A	4,000 A	6,000 A	8,000 A
AC voltage	800 V						
Frequency	50 / 60 Hz						
Overcurrent protection	Automatic circuit breaker						
AC max. cross section	400 mm². One cable per terminal						
Cooling system	Forced air ventilation						
Max. power consumption	750 VA						
Protection class	IP54						
Step-up transformer							
Medium voltage	From 20 kV up to 35 kV, 50-60 Hz						
Cooling system	ONAN / KNAN						
Maximum efficiency	99%						
Protection class	IP54						
MV switchgear							
Medium voltage	Up to 34.5 kV						
Rated current	630 A						
Cooling system	Natural air ventilation						
Max. power consumption	0 W						
Protection class	IP54						
General data							
Temperature range	from -20 °C to +50 °C						
Relative humidity (non-condensing)	0 - 100%						
Maximum altitude	4,000 masl (power derating starting at 2,000 masl)						
Equipment							
Inverter version	INGECON® SUN 350TL M12						
Auxiliary services panel	Standard version (optional monitoring system)						
Step-up transformer	Oil-immersed hermetically sealed transformer						
MV switchgear	1L1C cells (2L1C optional)						
Mechanical information							
Structure type	Hot dip galvanized steel skid						
Skid dimensions	7,940 x 2,100 x 2,460 mm / 26 x 7.25 x 8 ft						
Weight	7.5 T	8 T	11 T	15 T	17.5 T	21.5 T	25 T
Standards	IEC 62271-212, IEC 62271-200, IEC 60076, IEC 61439-1						





AC Combiner box

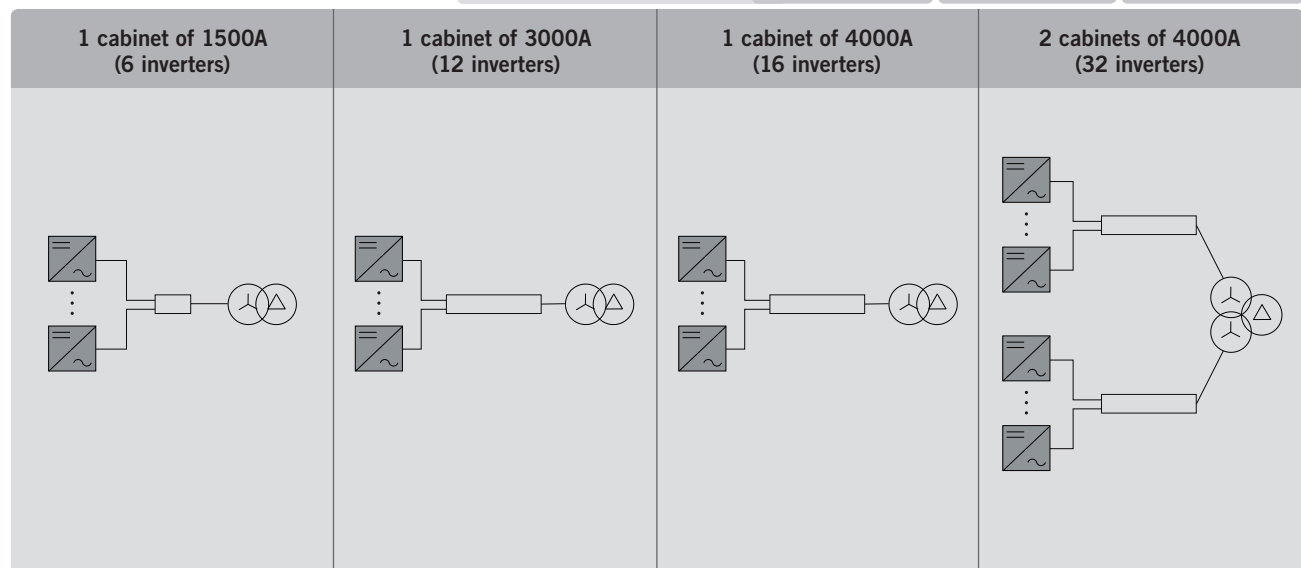
These cabinets combine all the AC cabling coming from the solar PV inverters

Ingeteam has designed three models of AC Combiner Box cabinets so that the String Station can be adapted to photo-voltaic projects of all sizes.

The smallest model has been designed for up to six inverters, whilst the largest model allows up to 16 inverters. The largest possible String Station would combine two of these cabinets up to 16 inverters.

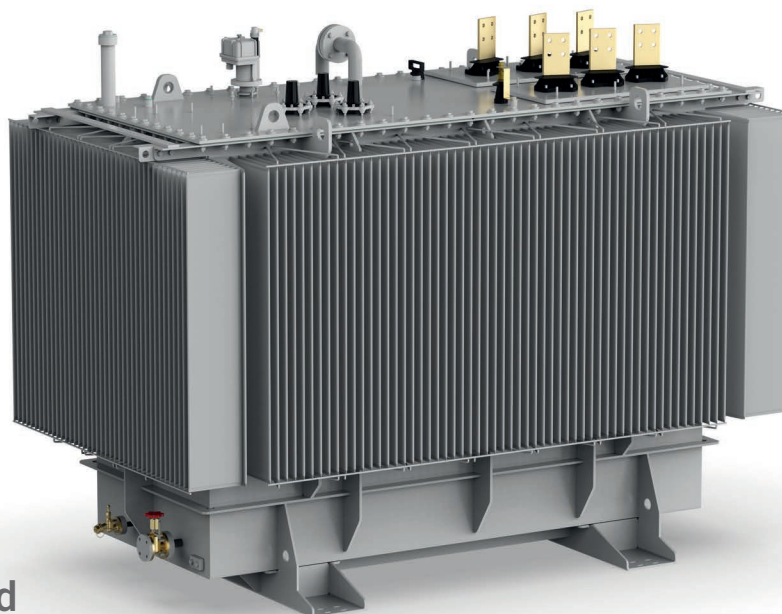
All the AC Combiner Box models are equipped with an isolation watchdog, essential element in IT systems.

AC Combiner box			
General information			
AC voltage	800 V		
Frequency	50 / 60 Hz		
Overcurrent protection	Automatic circuit breaker		
AC max. cross section	400 mm ² . One cable per terminal		
Cooling system	Forced air ventilation		
Max. power consumption	750 VA		
Protection class	IP54		
Models	1500A cabinet	3000A cabinet	4000A cabinet
Number of inverters	6	12	16
AC power @30 °C	2,078.4 kVA	4,156.8 kVA	5,542.4 kVA



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Three-phase oil-insulated step-up transformers

Medium Voltage Transformer / Hermetically Sealed Completely Filled

Ingeteam provides highly performing three phase oil-insulated step-up transformers. Power ratings are available up to 11.2 MVA, with voltage ratings (MV side) from 10 up to 36 kV.

The transformers are classified as per the IEC 60076 standard, offering the following benefits:

- Reduced power losses.
- Reduced maintenance needs.
- Suitable both for internal or external use.

The voltage value at the secondary winding (LV side) is compatible with the inverter output voltage from 640 V to 920 V.

STANDARD FUNCTIONS

- Reduced power losses. Other power losses upon request.
- Electrostatic shield reducing disturbances, distortions and overvoltages.
- DGPT2 / DMCR relay.
- Mineral oil insulation.

FUNCTIONS AVAILABLE UPON REQUEST

- Natural ester dielectric insulation fluid (fire point > 300 °C).
- Copper windings.
- Other functions available upon request.

Step-up Transformer Heretically Sealed Completely Filled					
General information					
Category		Hermetic mineral oil-insulated transformer (vegetable oil insulated upon request)			
Rated frequency		50 / 60 Hz			
Efficiency at rated power		99%			
Primary voltage regulator		± 2 x 2.5%			
Insulation class	Primary winding	12 kV: 12 / 28 / 75 kV	17.5 kV: 17.5 / 38 / 95 kV	24 kV: 24 / 50 / 125 kV	36 kV: 36 / 70 / 170 kV
	Secondary winding	3.6 kV			
Primary / secondary conductive material		Aluminium / Aluminium (Copper optional)			
Vector group		Dy11			
Primary winding		Triangle ⁽¹⁾			
Secondary winding		Star			
Max. overtemperature for windings / oil		+65 / +60 K			
No-load current		< 1%			
Max. peak starting current		< 15 x I _n ⁽¹⁾			
Installation		Indoor or outdoor			
Cooling type		ONAN			
Max. altitude above sea level ⁽²⁾		4,500 m			
Short-circuit impedance at 75 °C		8% ⁽¹⁾			
General features		Terminal board for primary voltage adjustment, lifting lugs, earthing terminal, electrostatic shield and DGPT2 / DMCR relay			

Notes: ⁽¹⁾ For different configurations, please contact Ingeteam's solar sales department ⁽²⁾ For installations beyond 1,000 m, please contact Ingeteam's solar sales department.



Medium Voltage Switchgear

Different MV gas-insulated switchgear adapted to every customer's needs

Ingeteam offers a number of configuration options for the Medium Voltage feeder, tailored to suit the needs of each specific customer.

In all cases, gas-insulated metal-enclosed switchgear is used, manufactured according to standard IEC 62271-200.

The key technical features, based on the insulation voltage required, are as follows:

TECHNICAL FEATURES

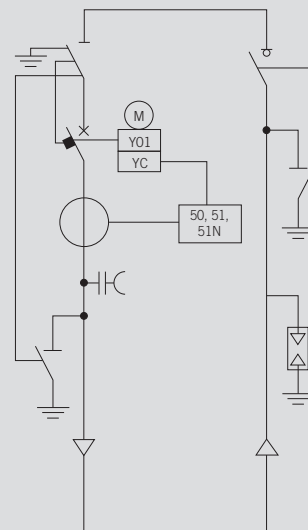
- Breaking capacity 16 kA - 1 s.
- DIN EN 50181 type C plug-in connectors.
- Intrinsically safe operation through interlocks.
- Additional interlocking for transformer room access.
- Optional fused protection available up to 2330 kVA (check climatic conditions).
- Optional circuit breaker protection with 50 / 51 - 50N / 51N function and self-powered protection relay available in the complete power range.
- IP65 for the gas insulated parts.
- Standard Temperature range: from -25 °C to +40 °C.
- Voltage presence indicators and gas pressure display.

	Clase 24 kV	Clase 36 kV
General Information		
Rated Voltage (Ur)	24 kV	36 kV
Rated Insulation level (Ud)	50 kV	70 kV
Rated lightning impulse withstand (Up)	125 kV / 145 kV	170 kV / 195 kV
Rated frequency (fr)	50-60 Hz	50-60 Hz
Rated normal current (Ir) and temperature raise	630 A a 40 °C	630 A a 40 °C
Rated pshot time withstands current (Ip)	16 kA, 20 kA, 25 kA (optional)	16 kA, 20 kA, 25 kA (optional)
Rated peak withstand current (Ip)	40 kA (50 kA opt)→50 Hz 41,6 kA (52 kA opt)→60 Hz	40 kA (50 kA opt)→50 Hz 41,6 kA (52 kA opt)→60 Hz
Rated duration of short-circuit (tk)	1 s (3 s optional)	1 s (3 s optional)
Rated supply voltage of closing and opening devices and of auxiliary and control circuits (Ua)	24 Vdc	24 Vdc
Installation	Outdoor or indoor	Outdoor or indoor

1L1C

Line entry with disconnecter and earthing disconnector + transformer position with circuit breaker with 50-51 and 50N-51N protection functions and earthing disconnector.

Typical end of line configuration.



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Auxiliary services panel

The String Station's auxiliary services panel is equipped with all the necessary protection and communications elements.

It features an Ingeteam's remote terminal unit (RTU), INGESYS IC2, with analog and digital inputs, and digital outputs to monitor the status of all the components inside the String Station. This RTU is connected to the fiber optic patch panel that is also connected to the power plant controller (PPC) through the plant's communication network.

Also, this panel integrates type II surge arresters, several circuit breakers and switches.

On the other hand, the auxiliary services panel features a 24-V UPS that guarantees up to 3 hours of autonomy for the communications.

The power supply for this panel comes from a 15-kVA auxiliary services transformer (Dyn11, IP54), also integrated inside the String Station.

Auxiliary services panel	
General information	
Ambient temperature	from -20 °C to 50 °C
Relative humidity (non-condensing)	0-100%
Dimensions (W x D x H)	800 x 300 x 1,900 mm
Weight	150 kg
Protection class	IP56
Mechanical resistance	IK10
Corrosion protection	C5H
Maximum altitude	2,000 m (for installations beyond 1,000 m, please contact Ingeteam's solar sales department)
Cooling system	Forced air ventilation
Marking	CE
Standards	IEC61439-1
Remote Terminal Unit (RTU) INGESYS IC2	
Digital inputs	44
Digital outputs	4
Analog inputs	5
Power supply	
Voltage	400 Vac three phase
Consumption	15 kVA
UPS capacity	10 h
Communications	
Modbus TCP RJ45	2 ports
RS-485	Up to 4 ports

INGECON SUN Monitor



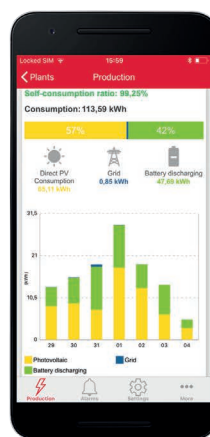
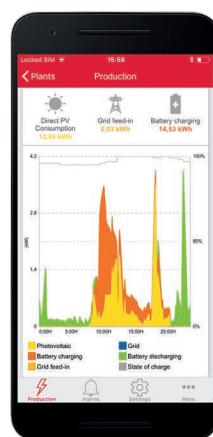
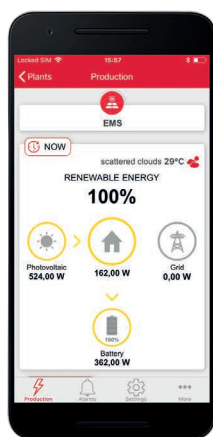
Web portal and Smartphone application to monitor solar power plants and self-consumption systems

The INGECON® SUN Monitor application enables accessing all the data of any solar PV plant or self-consumption installation from a PC, a tablet or a Smartphone (www.ingeconsunmonitor.com). Its user-friendly configuration allows system owners, installers and developers to control the installation.

Maximum control of the system status
With this software we can get real-time information about the solar system's status and production levels. This information is gathered and represented through graphics and lists, and it is also possible to generate an automated email report with production and alarms information. The data collection and storage is done during all the inverter's lifetime.

Also available as Smartphone app

Thanks to the Smartphone app, every solar plant owner or self-consumption system user, with or without batteries, can access all the generation, consumption, and batteries charging/discharging data on a daily, weekly, monthly or yearly basis. Moreover, the application can also calculate the savings achieved on the electric bill.

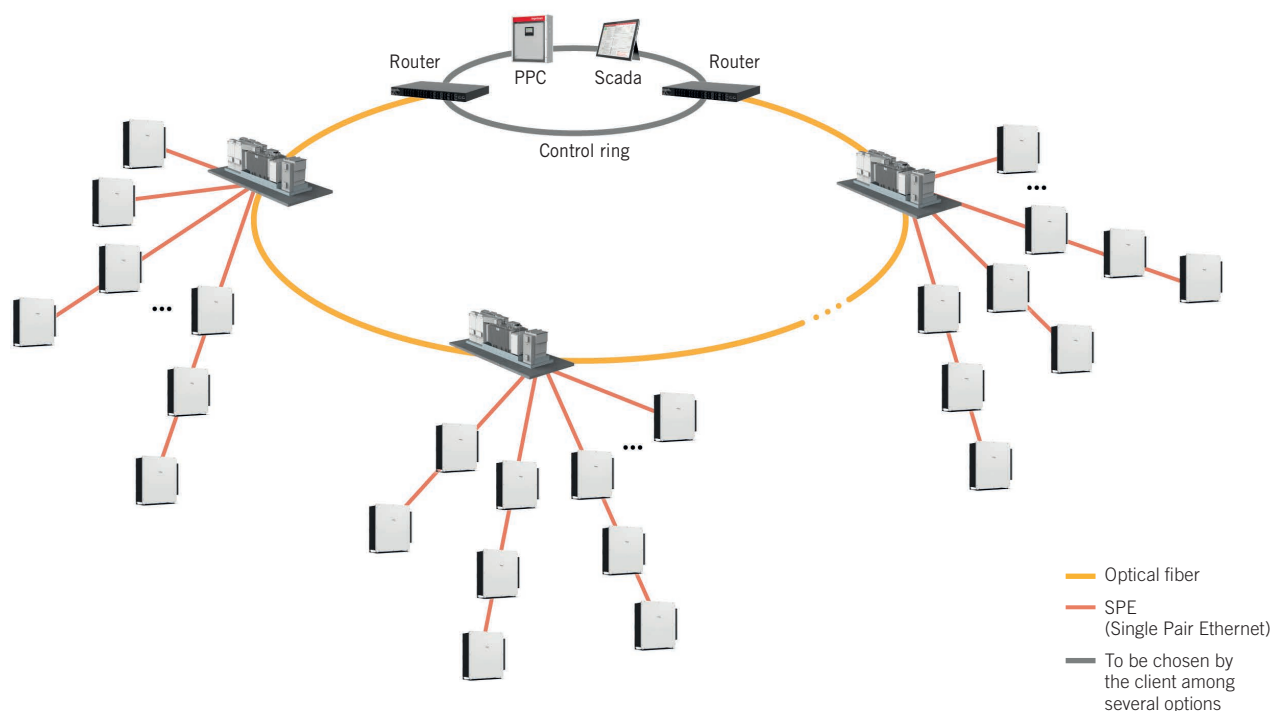


Available on the
Play Store

Available on the
App Store

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Communications network

The communications network is a key factor in order to guarantee a correct solar plant operation. The distribution of the inverters in the communications network depends on many factors, such as the land's variability, the electric connection, the number and rated power of inverters, the distance between them, etc.

In power plants with a high number of inverters, a network's segmentation between different VLANs and a correct configuration of the redundancy protocols in the manageable switches, fiber optic rings, etc., is necessary for optimising the traffic in the network and avoiding overcharges for unnecessary traffic.

Power plant controller

Ingeteam's power plant controller features a control algorithm with response times of less than 10 milliseconds, thanks to which it can develop a precise and effective control of the active and reactive power injected to the grid.

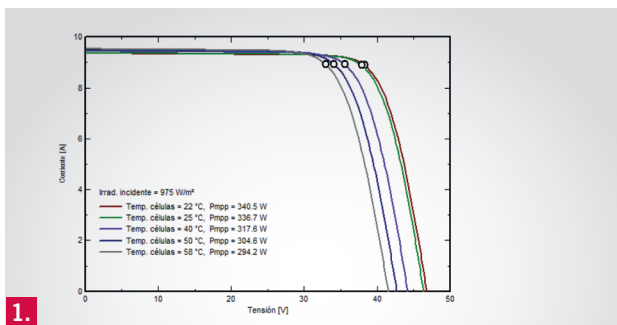
Power plant controller (PPC)	
Communication	
Standard protocols	Modbus / TCP (client and server), FTP (client and server), NTP (client and server)
Compatible protocols	Modbus / RTU (Master and slave), 101 (Slave), 104 (Slave), DNP3 (Slave), OPC UA (Server)
Outer connectivity	10 / 100BaseT(X), 100BaseFX with patch panels
Managed communication	Optional
Redundancy	Optional
General Data	
Dimensions (H/W/D)	1,005 / 860 / 360 mm
Weight	120 kg
Protection class	IP65
Operating temperature	-20 to 50 °C / -4 to 122 °F
Maximum altitude ⁽¹⁾	2,000 m
Marking	CE
Standards	IEC 61000-4-30, IEC 62586-1, IEC 61131-3, IEC 60204-1, IEC 61439
Notes: ⁽¹⁾ For installations beyond the maximum altitude, please contact Ingeteam's solar sales department.	



Power plant sizing and grid code compliance

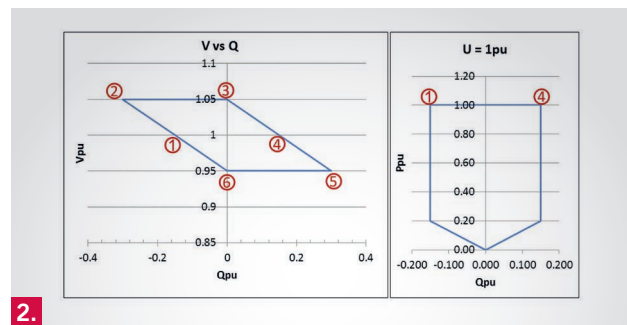
Ingeteam has developed its own PV plant sizing tool, with which we can choose all the parameters and guarantee any grid code compliance in four simple steps:

1. Evaluation of the PV module parameters from PVsyst.
2. Evaluation of the country's grid code requirements.
3. Evaluation of the model and number of solar inverters.
4. Final simulation to ensure the grid code compliance.



1.

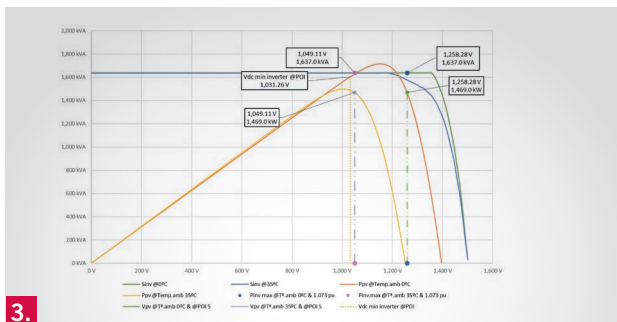
EVALUATION OF THE PV MODULE MODEL



2.

+30 GRID CODES AVAILABLE

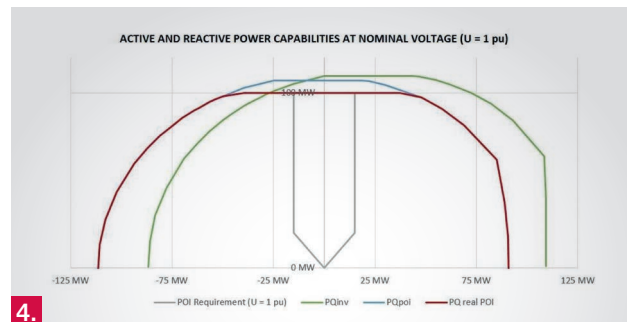
Evaluation of the grid code's requirements



3.

EVALUATION OF THE INVERTER MODEL

Automatic calculation to obtain the best operation point.



4.

FINAL ANALYSIS

The final results are uploaded into DigSILENT, thus the customer can simulate his/her own PV plant with real P and Q values for the chosen DC voltage.

Ingeteam

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