



**Salvetti Graneroli**  
engineering

# IMPIANTO SOLARE AGRIVOLTAICO "NOVI LIGURE SOLAR 1"

## Progetto

### IMPIANTO FOTOVOLTAICO A TERRA PER LA PRODUZIONE DI ENERGIA ELETTRICA SITO NEL COMUNE DI NOVI LIGURE (AL)

Istanza di valutazione di impatto ambientale per la costruzione  
e l'esercizio di impianti di produzione di energia elettrica  
alimentati da fonti rinnovabili ai sensi degli artt. 23, 24-24bis e  
25 del D.Lgs.152/2006

## PROGETTO DEFINITIVO

### Oggetto

A-RELAZIONI  
Schede tecniche materiali

### Aggiornamenti

| Rev. | Data       | Descrizione |
|------|------------|-------------|
| 0    | 29/06/2022 | Emissione   |
|      |            |             |
|      |            |             |
|      |            |             |
|      |            |             |

### Committente

ELLOMAY SOLAR ITALY SIXTEEN S.r.l  
Via Sebastian Altmann, 9 - Bolzano (BZ)

| Data       | Scala | Tavola  |
|------------|-------|---------|
| 29/06/2022 |       | A.07_00 |

### Progettista



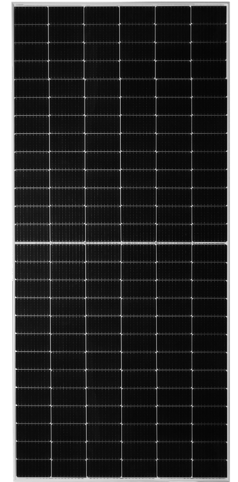
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# Ultra V Pro Plus

## HALF-CELL N-TOPCon BIFACIAL MODULE

TYPE: STPXXXS - C78/Nmh+



POWER OUTPUT  
**600-620W**

MAX EFFICIENCY  
**22.4%**

### Features



**High module conversion efficiency**  
Module efficiency up to **22.4%** achieved through advanced cell technology and manufacturing process



**Lower operating temperature**  
Lower operating temperature and temperature coefficient increases the power output



**Suntech current sorting process**  
Up to **2%** power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



**Extended wind and snow load tests**  
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*

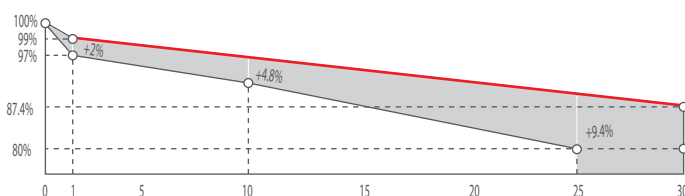


**Excellent weak light performance**  
More power output in weak light condition, such as cloudy, morning and sunset



**Withstanding harsh environment**  
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

### Industry-leading Warranty \*\*



- ◆ First year power degradation: 1%
- ◆ Annual degradation: 0.40%
- ◆ Product warranty: 12 years
- ◆ linear warranty: 30 years

### Certifications and Standards

CE IEC 61730 IEC 61215  
SA 8000 Social Responsibility Standards  
ISO 9001 Quality Management System  
ISO 14001 Environment Management System  
ISO 45001 Occupational Health and Safety  
IEC TS 62941 Guideline for module design qualification and type approval



**Munich RE** \*\*\*\*

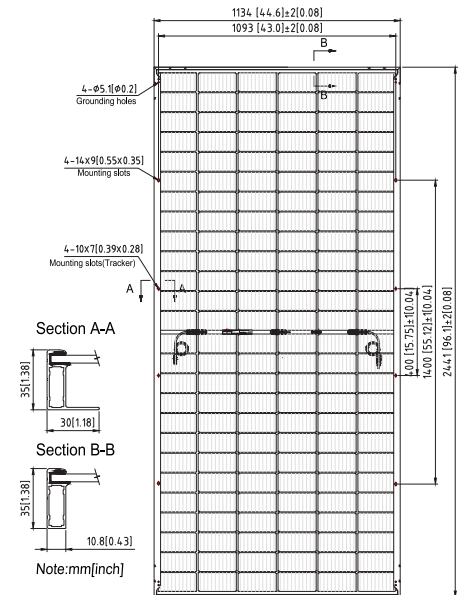
\* Please refer to Suntech Standard Module Installation Manual for details.  
\*\* Please refer to Suntech Limited Warranty for details.

\*\*\* WEEE only for EU market.  
\*\*\*\* Suntech reserves the right to the final interpretation of the warranty by Munich RE.

# Ultra V Pro STPXXXS - C78/Nmh+ 600-620W

## Mechanical Characteristics

|                              |   |
|------------------------------|---|
| Solar Cell                   | N-type Monocrystalline silicon 182 mm   |
| No. of Cells                 | 156 (6 × 26)  |
| Dimensions                   | 2441 × 1134 × 35 mm (96.1 × 44.6 × 1.4 inches)  |
| Weight                       | 35.1 kgs (77.4 lbs.)  |
| Front \ Back Glass           | 2.0+2.0 mm (0.079+0.079inches) semi-tempered glass  |
| Output Cables                | 4.0 mm <sup>2</sup> ,<br>(-) 350 mm and (+) 160 mm in length<br>or customized length  |
| Junction Box                 | IP68 rated (3 bypass diodes)  |
| Operating Module Temperature | -40 °C to +85 °C  |
| Maximum System Voltage       | 1500 V DC (IEC)   |
| Maximum Series Fuse Rating   | 25 A  |
| Power Tolerance              | 0/+5 W  |
| Refer. Bifaciality Factor    | (80 ± 5)%   |
| Packing Configuration        | Packaging box dimensions (mm) : 2470×1130×1269<br>Packaging box weight (kg) : 1163<br>31 Pieces per pallet<br>558 Pieces per container / 40 'HC |



## Electrical Characteristics

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

| Module Type                       | STP620S-C78/Nmh+ |       | STP615S-C78/Nmh+ |       | STP610S-C78/Nmh+ |       | STP605S-C78/Nmh+ |       | STP600S-C78/Nmh+ |       |
|-----------------------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|                                   | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  | STC              | NMOT  |
| Maximum Power (Pmax/W)            | 620              | 473.2 | 615              | 469.3 | 610              | 465.6 | 605              | 461.6 | 600              | 457.8 |
| Optimum Operating Voltage (Vmp/V) | 46.43            | 43.0  | 46.25            | 42.8  | 46.07            | 42.6  | 45.89            | 42.4  | 45.71            | 42.3  |
| Optimum Operating Current (Imp/A) | 13.36            | 11.02 | 13.30            | 10.97 | 13.25            | 10.93 | 13.19            | 10.88 | 13.13            | 10.83 |
| Open Circuit Voltage (Voc/V)      | 54.86            | 51.9  | 54.68            | 51.7  | 54.50            | 51.5  | 54.32            | 51.4  | 54.14            | 51.2  |
| Short Circuit Current (Isc/A)     | 14.37            | 11.59 | 14.31            | 11.54 | 14.25            | 11.50 | 14.19            | 11.45 | 14.13            | 11.40 |
| Module Efficiency (%)             | 22.4             |       | 22.2             |       | 22.0             |       | 21.9             |       | 21.7             |       |

For tracker installation, please turn to Suntech for mechanical load information.

## Different Rearside Power Gain

Reference to 610S Front

| Rearside Power Gain               | 5%    | 15%   | 25%   |
|-----------------------------------|-------|-------|-------|
| Maximum Power at STC (Pmax)       | 640.5 | 701.5 | 762.5 |
| Optimum Operating Voltage (Vmp/V) | 46.1  | 46.1  | 46.2  |
| Optimum Operating Current (Imp/A) | 13.91 | 15.24 | 16.56 |
| Open Circuit Voltage (Voc/V)      | 54.5  | 54.5  | 54.6  |
| Short Circuit Current (Isc/A)     | 14.96 | 16.39 | 17.81 |
| Module Efficiency (%)             | 23.1  | 25.3  | 27.5  |

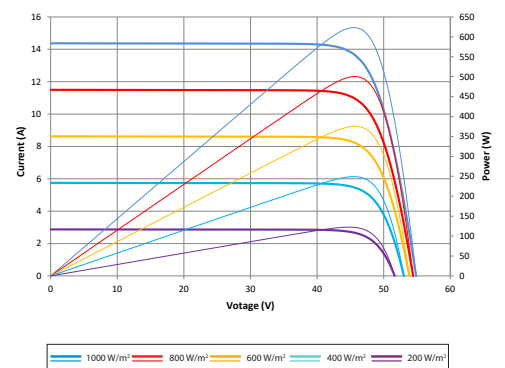
## Temperature Characteristics

|   |            |
|---|------------|
| Nominal Module Operating Temperature (NMOT) | 42 ± 2 °C  |
| Temperature Coefficient of Pmax             | -0.320%/°C |
| Temperature Coefficient of Voc              | -0.260%/°C |
| Temperature Coefficient of Isc              | 0.046%/°C  |

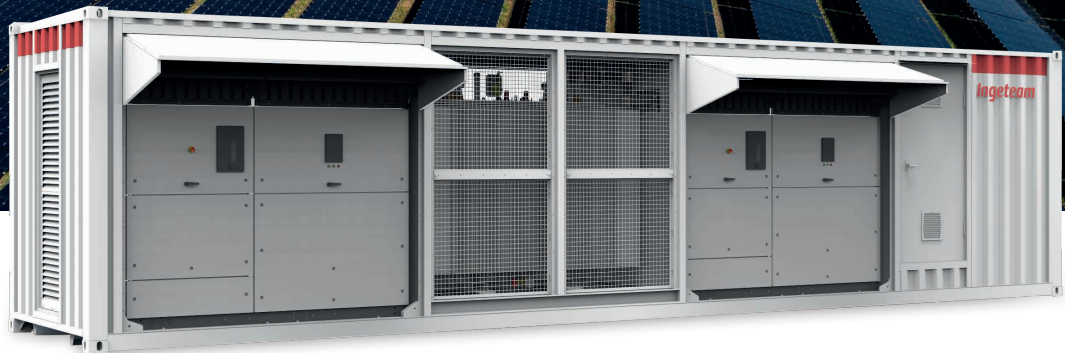
Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

## Graphs

Current-Voltage & Power-Voltage (620S)

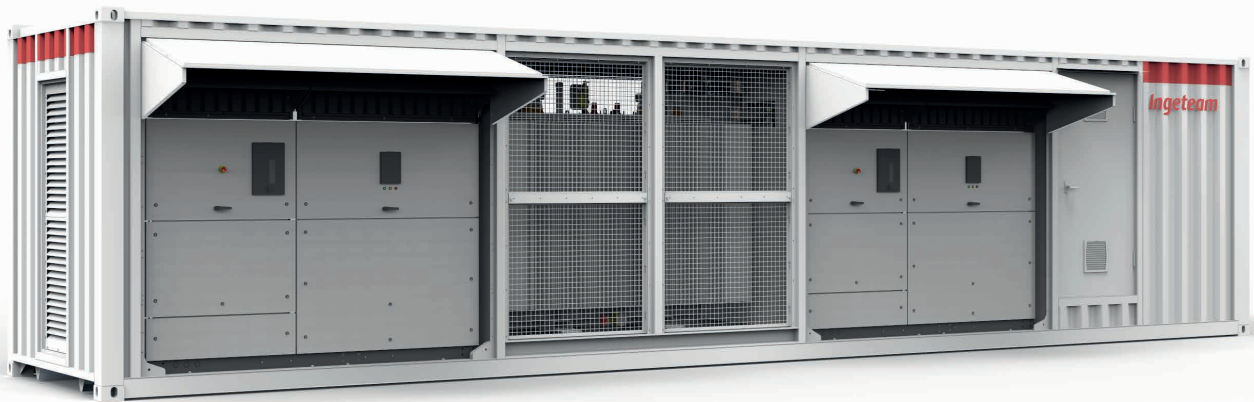


**INGECON** SUN PowerStation



20 and 40-foot MV  
turnkey solutions,  
customised up to 5000 kVA  
with 1500 V Outdoor Inverters

***Ingeteam***



## From 830 to 5000 kVA

The complete turnkey solution, customized up to 5 MW. 20 or 40 ft. container with natural air cooling system for adverse environmental conditions

Thanks to its CSC approval for overseas shipment, the INGECON® SUN PowerStation CON20 and CON40 can be marketed and installed everywhere in the world. They are fully equipped containers with five or four separate compartments, central inverters, Medium Voltage switchgear and LV / MV transformer (up to 5,000 kVA).

### Robust and long-lasting design

The INGECON® SUN PowerStation CON20 and CON40 are standard solutions specifically designed to maximise the compactness and cost-effectiveness of the overall equipment. Thus, the transformer is naturally aircooled, as it is located in an outdoor compartment. The switchgear and communications panels are installed in an IP55 compartment to ensure their maximum protection. The sandwich panels of this compartment are made of galvanized painted steel, filled with a 40 mm layer of rigid fire proof polyurethane foam, ensuring perfect waterproofness over time and efficient thermal insulation.

### Equipped with everything necessary

High efficiency inverters, auxiliary services switchgear, Medium Voltage cubicle and LV / MV transformer. Available with high-speed Ethernet / Fiber Optic communication infrastructure for Plug & Play connection to PV Plant Controller, monitoring and SCADA systems.

### Complete accessibility

Thanks to its innovative design, all devices are readily accessible. The use of outdoor central inverters provides full access and the possibility of maintenance for all the equipment from the external part of the inverter station.

### Ideal for adverse environments

The INGECON® SUN PowerStation CON20 and CON40 are standard solutions able to withstand adverse environmental conditions without any loss of performance.

### Maximum power density

This INGECON® SUN PowerStation CON20 or CON40 feature two or three B Series PowerMax PV inverters, Ingeteam's most compact PV inverter, as it provides more power per cubic foot. This makes it possible to achieve up to 3,300 kVA in only 20-feet and up to 5,000 kVA in only 40-feet inverter station.

### Grid support

The INGECON® SUN PowerMax PV inverters have been designed to comply with the most demanding international grid codes, contributing to the quality and stability of the electric system. Low voltage ride-through capability, reactive power deliverance and active power control are just some of their main features.



**CON20 NA / NA / FA**  
up to 3300 kVA



**CON40 NA / NA / FA**  
up to 5000 kVA

MAIN FEATURES

- Output power up to 5,000 kVA.
- Equipped with IP54 protection degree central inverters. <sup>(1)</sup>
- Available with oil immersed hermetically sealed LV / MV transformer (up to 5,000 kVA / 36 kV) in IP21 compartment.
- Available with IP55 compartment for MV Switchgear and LV equipment.
- Rated power up to 50 °C ambient temperature. <sup>(1)</sup>
- Protected against direct solar radiation.
- CSC certification for container shipping.
- Plug & Play solution.
- Maximum reliability, higher safety and reduced maintenance.
- Installation Altitude: 3,000 m above sea level. <sup>(1)</sup>

<sup>(1)</sup> Refer to Technical Characteristics tables for further details.

ELECTRICAL PROTECTIONS

- Reverse polarity.
- Output short-circuits and overloads.
- DC fuses.
- Motorized DC switches with door control.
- AC thermal-magnetic breakers with door control.
- DC and AC overvoltage suppressors.
- Anti-islanding monitoring system with automatic disconnection.
- Insulation monitoring system.
- Automatic disconnection system in case of LV / MV transformer overheat.
- Emergency disconnection button, accessible from outside.
- DGPT2 protection relay included in the transformer.
- MV protection with fuse or circuit breaker protections.

STANDARD EQUIPMENT

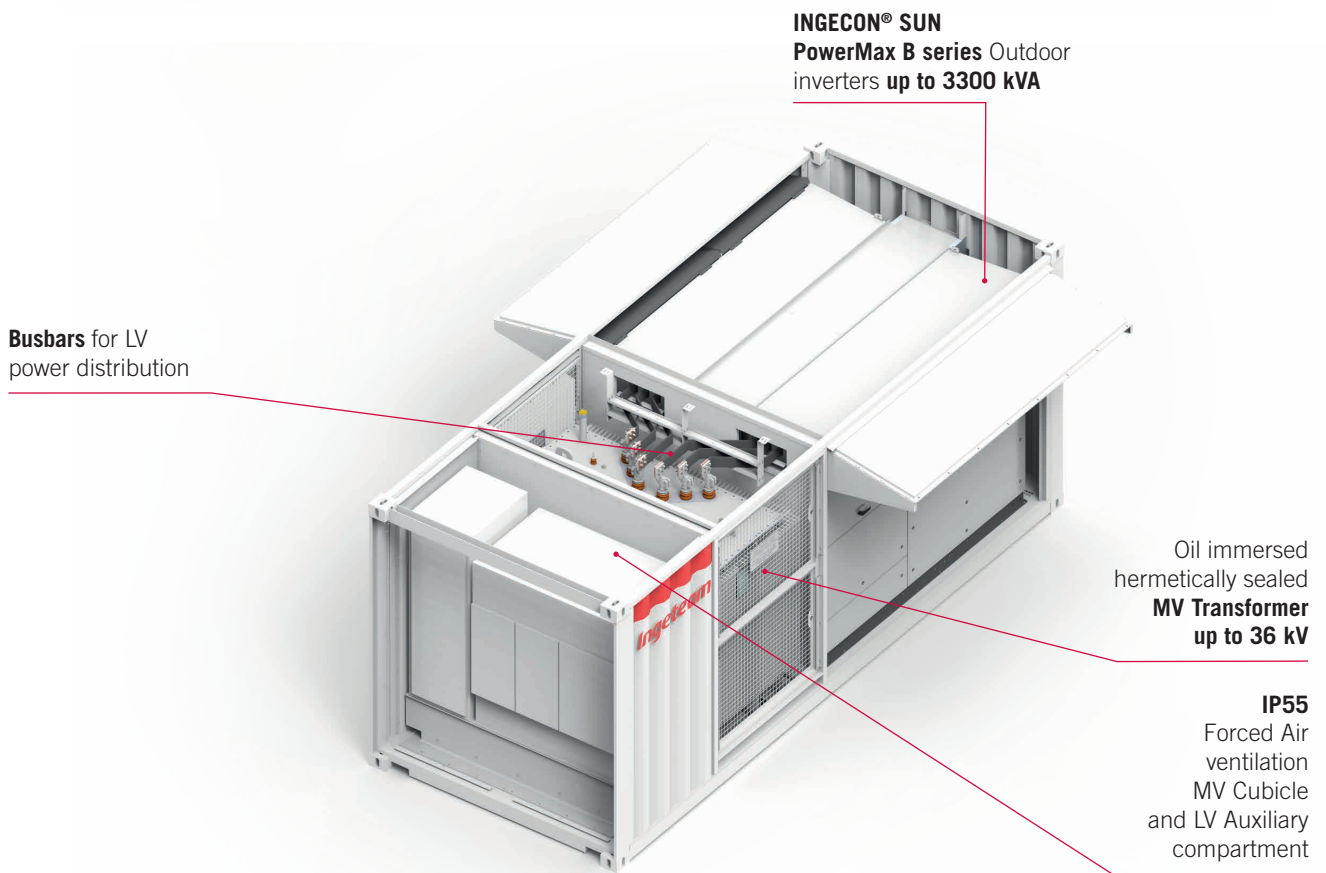
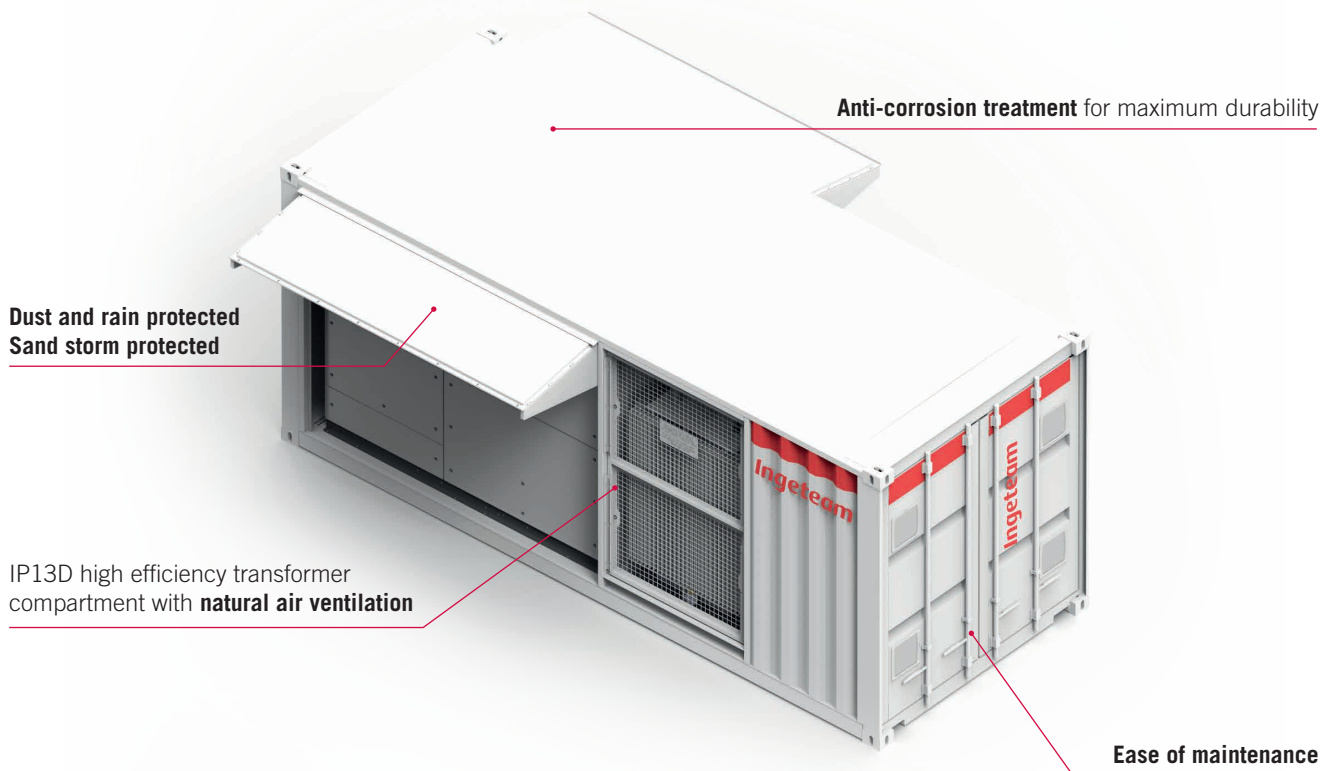
- LV / MV transformer with reduced power losses.
- One, two or three INGECON® SUN PowerMax B Series central PV inverters.
- MV switchgear (1P-0L, 1P-1L, 1P-2L configuration).
- Auxiliary power outlet.
- Fully equipped auxiliary services panel.
- Internal and emergency lighting systems.
- Fire detection system with automatic disconnection (both DC and AC sides).
- Medium Voltage safety kit.
- First aid kit and safety signals.

OPTIONAL EQUIPMENT

In addition to the standard equipment, the INGECON® SUN PowerStation can be supplied with the following options:

- LV / LV transformer for the power supply to the auxiliary services panel.
- Power losses reduction according to EU 548/2014.
- Auxiliary services feeder kit.
- UPS for auxiliary services.
- High-speed Ethernet / Fiber Optic communication infrastructure for Plug & Play connection to Power Plant Controller and / or SCADA systems.
- INGECON® SUN StringControl 16 / 24 / 32 channels intelligent or passive string combiner boxes.
- INGECON® SUN SCADA supervision, control and data acquisition system.
- INGECON® EMS Plant Controller compliant with the most widely international Grid Codes.
- Gateway for monitoring and control of the PV Plant by the Grid Operator using standard protocols (like IEC 61850, IEC 60870-5-101/104, DNP 3.0, etc.).
- Sand trap kit.
- Meteo station.
- HV surge arresters.
- Anti-rodent system.
- Human intrusion detection system.
- Internal and / or external lighting.
- Oil retention tank (separately supplied).
- Energy meter for auxiliary services and / or energy production.
- Insulation Monitoring Relay for continuous monitoring of IT systems insulation.
- Three-phase Capacitors with blocking inductances for Power Factor correction.
- DC and AC cable terminals.
- Reactive power regulation with no PV array power.
- Ground connection of the PV array.
- Painted with specific RAL upon request.

Solution up to 3300 kVA (Up to 2 PV inverters)



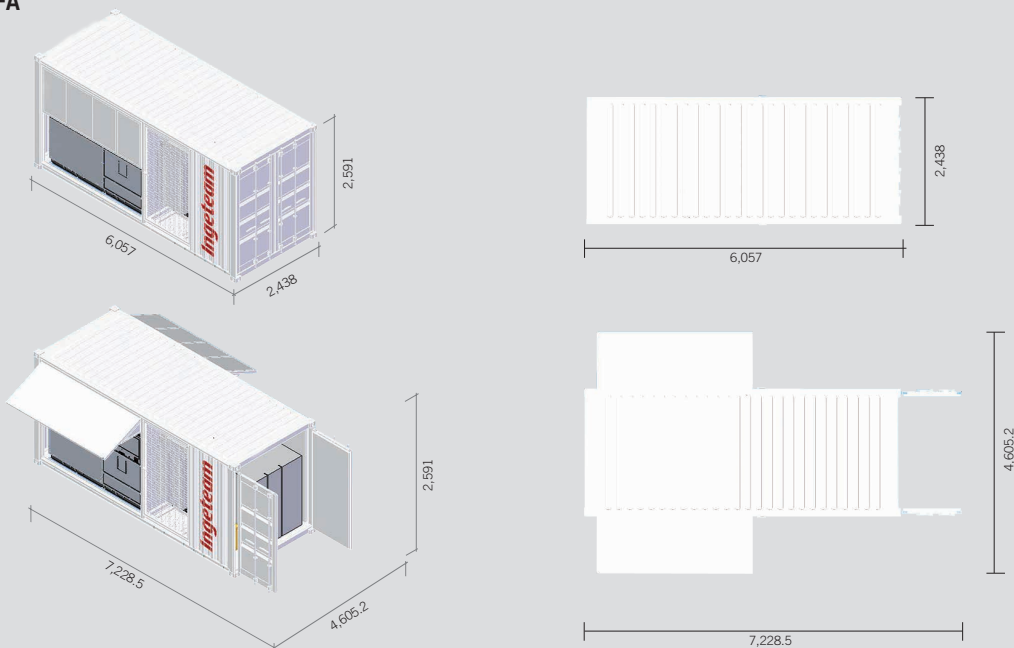
\* Illustrative image. It might not correspond with the basic configuration.

|  |                             | CON20 NA / NA / FA   |
|--|-----------------------------|--|
| <b>General Information</b>                     |                             |  |
| Inverter Compartment                           | Cooling system              | Natural air ventilation (forced air ventilation inside the inverters)                |
|  | Max. power consumption      | 8.5 kVA  |
|  | Protection degree           | Outdoor PV inverters (IP54)  |
|  | Max. power @ 1,000 Vdc      | 2,550 kVA @ 35 °C<br>2,346 kVA @ 50 °C (with 2 inverters)                            |
|  | Max. power @ 1,500 Vdc      | 3,280 kVA @ 30 °C<br>2,950 kVA @ 50 °C (with 2 inverters)                            |
| LV / MV Transformer compartment <sup>(1)</sup> | Cooling system              | Natural air ventilation  |
|  | Air extraction / Air intake | Protective metal grids   |
|  | Max. power consumption      | 0 W  |
|  | Protection degree           | IP13D (outdoor transformer)  |
| MV Cubicle compartment <sup>(2)</sup>          | Cooling system              | Forced air with temperature control  |
|  | Air extraction / Air intake | Filtered anti-rain grids   |
|  | Max. power consumption      | 65 W   |
|  | Protection degree           | IP55 / NEMA 3R   |
| Operating temperature range                    |                             | -20 °C to +55 °C <sup>(3)</sup>  |
| Relative humidity (non-condensing)             |                             | 0-100%   |
| Installation altitude <sup>(4)</sup>           |                             | 3,000 m above sea level  |
| <b>Equipment</b>                               |                             |  |
| Inverter version                               |                             | B series   |
| Auxiliary Services Switchgear                  |                             | Standard version (Full version and high-speed communication infrastructure optional) |
| LV / MV Transformer                            |                             | Oil immersed hermetically sealed   |
| MV Switchgear                                  |                             | 0L1P, 1L1P or 2L1P cells with either fuses or circuit breaker protection             |
| <b>Mechanical Information</b>                  |                             |  |
| Structure Material                             |                             | Steel  |
| MV Switchgear insulation grade                 |                             | Sandwich panels containing a rigid fire-proof polyurethane foam filling              |

**Notes:** <sup>(1)</sup> Including instrumentation, auxiliary services switchgear, monitoring systems <sup>(2)</sup> Equipped with oil immersed hermetically sealed LV / MV transformer <sup>(3)</sup> -30 °C with optional kit <sup>(4)</sup> Please contact Ingeteam for altitudes higher than 1,000 m.

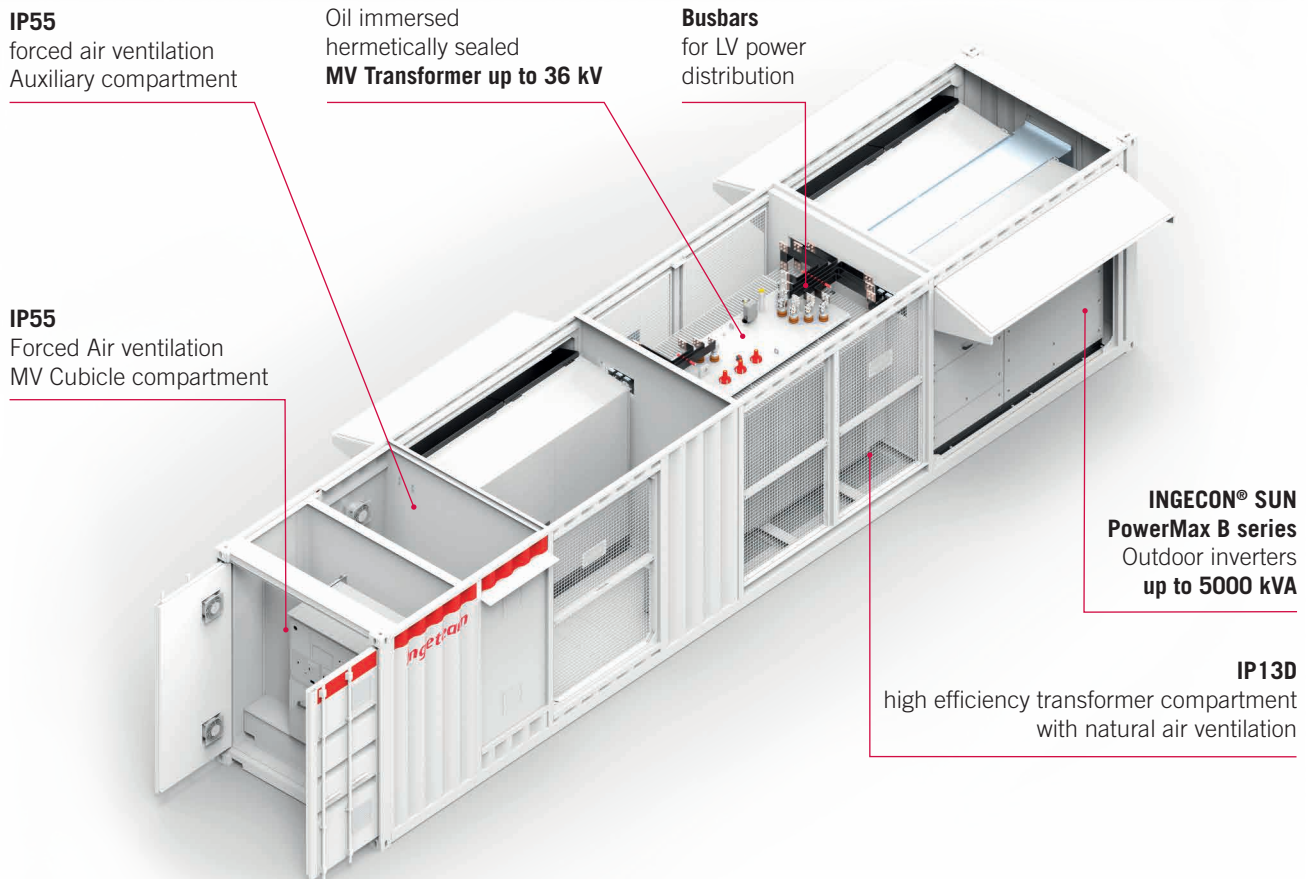
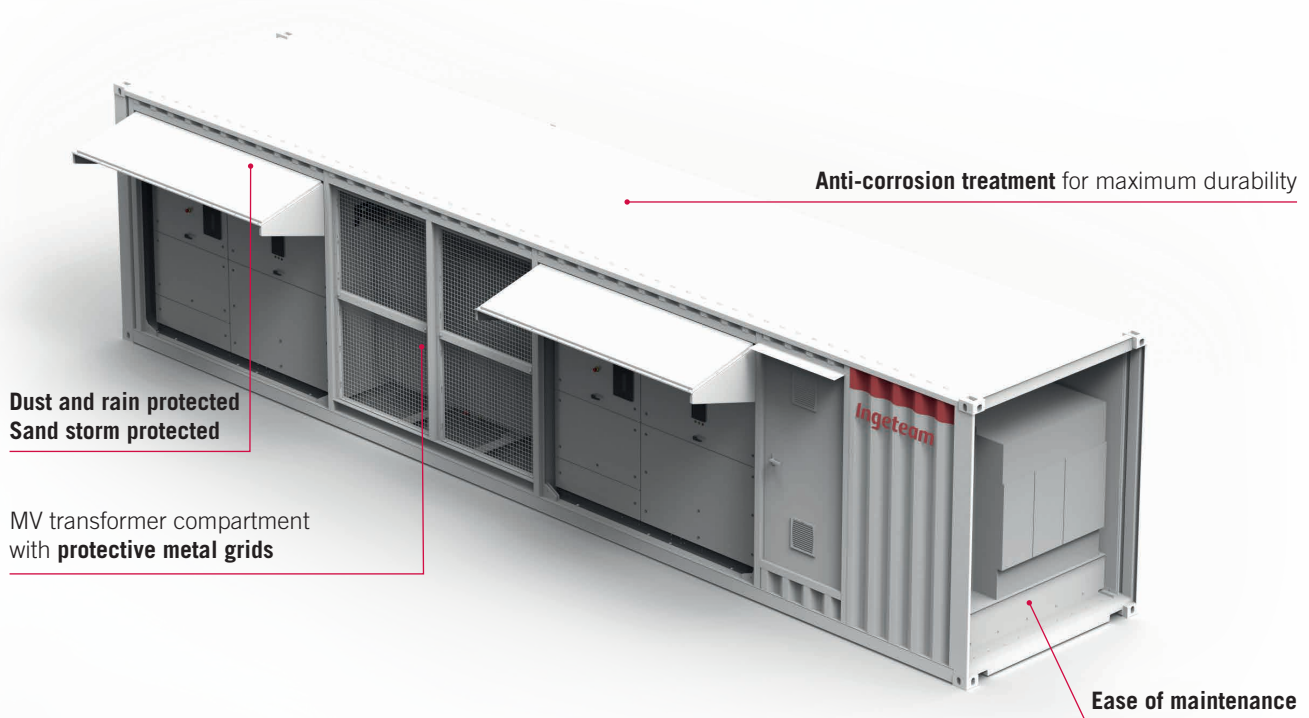
| Size (mm)                              | Length  | Width   | Height |
|--|---------|---------|--------|
| Body dimensions                        | 6,057   | 2,438   | 2,591  |
| Overall dimensions with all doors open | 7,228.5 | 4,605.2 | 2,591  |
| Foundation dimensions                  | 8,000   | 5,000   | 300    |

CON20 NA / NA / FA





Solution up to 5000 kVA (Up to 3 PV inverters)



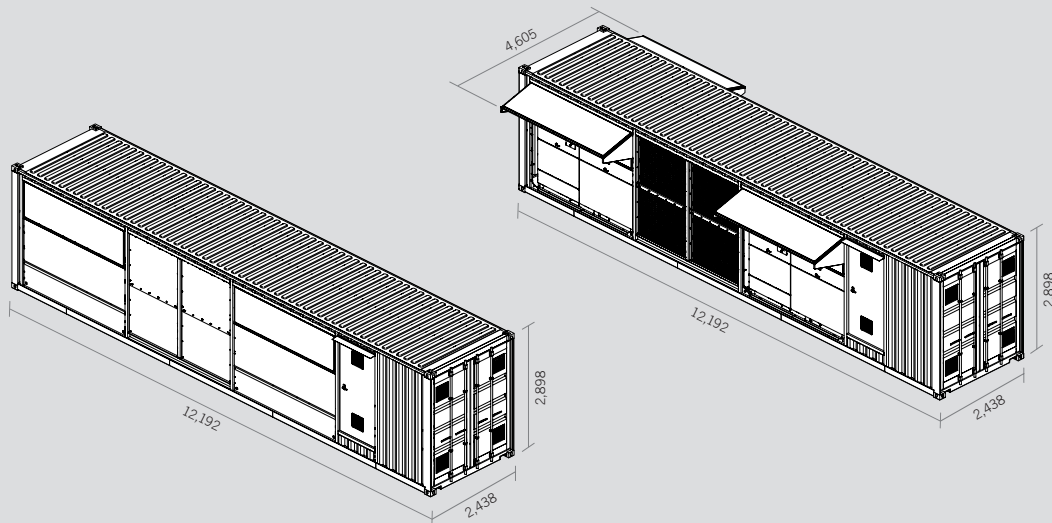
\* Illustrative image. It might not correspond with the basic configuration.

| CON40 NA / NA / FA                             |  |   |
|--|--|---|
| <b>General Information</b>                     |  |   |
| Inverter Compartment                           | Cooling system   | Natural air ventilation (forced air ventilation inside the inverters) |
|  | Max. power consumption   | 12.75 kVA   |
|  | Protection degree  | Outdoor PV inverters (IP54)   |
|  | Max. power @ 1,000 Vdc   | 3,825 kVA @ 35 °C<br>3,519 kVA @ 50 °C (with 3 inverters)             |
|  | Max. power @ 1,500 Vdc   | 4,920 kVA @ 30 °C<br>4,420 kVA @ 50 °C (with 3 inverters)             |
| LV / MV Transformer compartment <sup>(1)</sup> | Cooling system   | Natural air ventilation   |
|  | Air extraction / Air intake  | Protective metal grids  |
|  | Max. power consumption   | 0 W   |
|  | Protection degree  | IP13D   |
| MV Switchgear compartment <sup>(2)</sup>       | Cooling system   | Forced air with temperature control                                   |
|  | Air extraction / Air intake  | Filtered anti-rain grids  |
|  | Max. power consumption   | 65 W  |
|  | Protection degree  | IP55  |
| Operating temperature range                    | -20 °C to +55 °C <sup>(3)</sup>  |   |
| Relative humidity (non-condensing)             | 0-100%   |   |
| Installation altitude <sup>(4)</sup>           | 3,000 m above sea level  |   |
| <b>Equipment</b>                               |  |   |
| Inverter version                               | B series   |   |
| Auxiliary Services Switchgear                  | Standard version (Full version and high-speed communication infrastructure optional) |   |
| LV / MV Transformer                            | Oil immersed hermetically sealed   |   |
| MV Switchgear                                  | 0L1A, 1L1A or 2L1A cells with circuit breaker protection                             |   |
| <b>Mechanical Information</b>                  |  |   |
| Structure Material                             | Steel  |   |
| Insulation                                     | Sandwich panels containing a rigid fire-proof polyurethane foam filling              |   |

**Notes:** <sup>(1)</sup> Equipped with oil immersed hermetically sealed LV / MV transformer <sup>(2)</sup> Including instrumentation, auxiliary services switchgear, monitoring systems <sup>(3)</sup> -30 °C with optional kit <sup>(4)</sup> Please contact Ingeteam for altitudes higher than 1000 m.

| Size (mm)                              | Length | Width | Height |
|--|--------|-------|--------|
| Body dimensions                        | 12,192 | 2,438 | 2,898  |
| Overall dimensions with all doors open | 13,452 | 4,605 | 2,898  |
| Foundation dimensions                  | 13,500 | 4,450 | 300    |

CON40 NA / NA / FA





# Ingeteam

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**SF7** | From both  
Bi-facial | sides now

The next-generation-now horizontal single-axis solar tracker



# Bifacial Yield Boost

The SF7 standard configuration enables cost-effective installation, operation, and innovation such as the bifacial tracking solution.



Single-Axis Tracker

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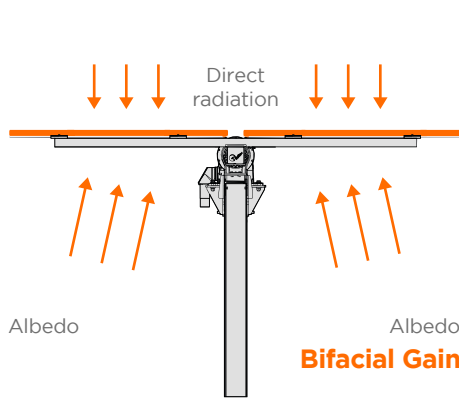
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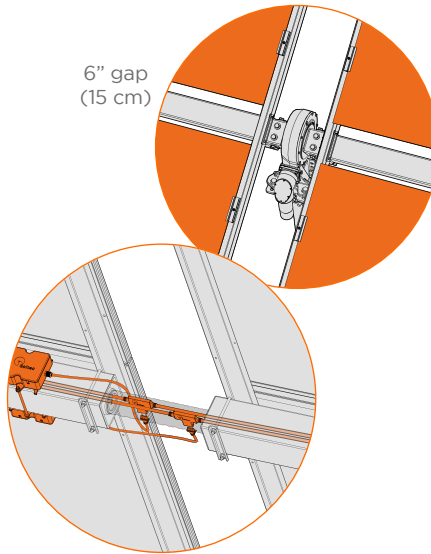
**EGYPT**  
egypt@soltec.com

**B&V Bankability report**  
**DNV GL Technology**  
**Review available**  
**RWDI WIND TUNNEL TESTED**

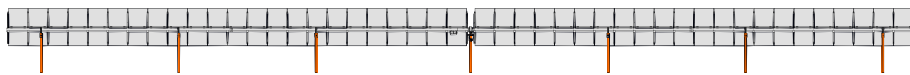
**2 year background**  
**industrial operation**



**No Shading**  
Two-up portrait module mounting:  
no backside shading from torque tube.

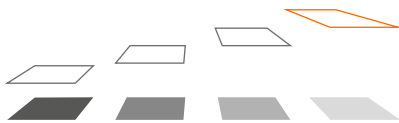


Eliminates hanging wires and manages cable through the torque tube, reducing the total wire up to **83%** and installation labor up to **75%**.



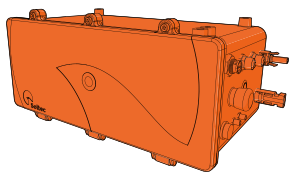
**Only 7 piles per every 90 modules** and no dampers, minimizing the number of objects shading the rear side of the modules. 46% fewer piles per MW.

## Taller Tracker



Bifacial performance is increased by height of installation, reducing shadow intensity projection.

## Highest Power Density



SF7 is **Self-Powered PV Series** and does not require an extra module. More PV active area per tracker for better land-use.

## 2x Wider Aisles

Maximize reflected solar energy (albedo) while improve O&M accessibility for modules washing and vegetation control.

