

**MEDIUM VOLTAGE
INVERTER STATION,
CUSTOMIZED
UP TO 6.55 MVA**

From 1.17 to 7.2 MVA

This brand new medium voltage solution integrates all the devices required for a multi-megawatt system.

Maximize your investment with a minimal effort

Ingeteam's Inverter Station is a compact, customizable and flexible solution that can be configured to suit each customer's requirements. It is supplied together with up to four photovoltaic inverters. All the equipment is suitable for outdoor installation, so there is no need of any kind of housing.

Higher adaptability and power density

This PowerStation is now more versatile, as it presents the MV transformer integrated into a steel base frame together with the MV switchgear. Moreover, it features the greatest power density on the market: 317 kW/m³.

Plug & Play technology

This MV solution integrates power conversion equipment –up to 7.2 MVA-, liquid-filled hermetically sealed transformer up to 36 kV and provision for low voltage equipment.

The MV Skid is delivered pre-assembled for a fast on-site connection with up to four PV inverters from Ingeteam's B Series central inverter family.

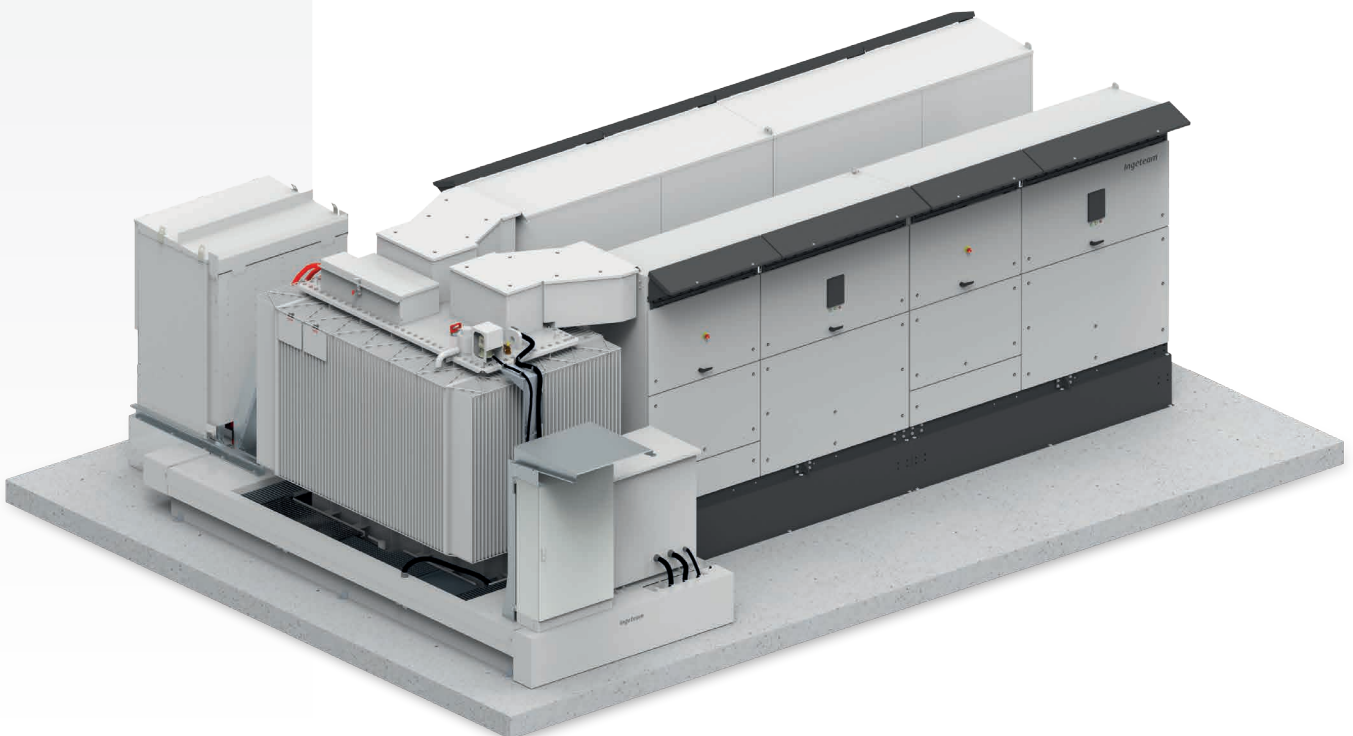
Complete accessibility

Thanks to the lack of housing, the inverters, the switchgear and the transformer can have immediate access. Furthermore, the design of the B Series central inverters has been conceived to facilitate maintenance and repair works.

Maximum protection

Ingeteam's B Series central inverters integrate the latest generation electronics and a much more efficient electronic protection. Apart from that, they feature the main electrical protections and they deploy grid support functionalities, such as low voltage ride-through capability, reactive power deliverance and active power injection control.

Furthermore, the electrical connection between the inverters and the transformer is fully protected from direct contact.



Medium voltage inverter station, customized up to 7.2 MVA

CONSTRUCTION

- Steel base frame.
- Suitable for slab or piers mounting.
- Compact design, minimizing freight costs.

STANDARD EQUIPMENT

- Up to four inverters with an output power of 7.2 MVA.
- Liquid-filled hermetically sealed transformer up to 36 kV.
- Oil-retention tank.
- Frame for installation of LV equipment.
- Minimum installation at project site.

OPTIONS UPON REQUEST

- Low voltage distribution panel.
- Power plant commissioning.
- High-speed Ethernet / fibre optic communication infrastructure for Plug & Play connection to the Power Plant Controller and/ or SCADA systems.
- INGECON® SUN StringBox with 16 / 24 / 32 input channels. Intelligent or passive string combiner box.
- Sand trap kit.
- Meteo station.
- Energy meter for auxiliary services and/or energy production.
- Insulation monitoring relay for continuous monitoring of IS systems insulation.
- Reactive power regulation when there is no PV power available.
- Ground connection of the PV array.

	MSK - Single Inverter	MSK - Dual Inverter	MSK - Single + Dual Inverter	MSK - Double Dual Inverter
Number of inverters	1	2	3	4
Max. power @30 °C / 86 °F	1,793 kVA	3,586 kVA	5,379 kVA	7,172 kVA
Skid Size	5,880 x 2,100 mm / 19 x 7 ft	5,880 x 2,100 mm / 19 x 7 ft	5,880 x 2,100 mm / 19 x 7 ft	5,880 x 2,100 mm / 19 x 7 ft
Max. estimated skid weight (without inverters)	10 tons	16 tons	21 tons	26 tons
Voltage class	24 - 36 kV	24 - 36 kV	24 - 36 kV	24 - 36 kV
Installation altitude ⁽¹⁾	Up to 4,500 m (14,765 ft)	Up to 4,500 m (14,765 ft)	Up to 4,500 m (14,765 ft)	Up to 4,500 m (14,765 ft)
Operating temperature range	-20 °C to +57 °C / -4 °F to +135 °F	-20 °C to +57 °C / -4 °F to +135 °F	-20 °C to +57 °C / -4 °F to +135 °F	-20 °C to +57 °C / -4 °F to +135 °F

Notes: ⁽¹⁾ For installations beyond 1,000 m (3,280 ft), please contact Ingeteam's solar sales department.

Configuration with four B Series PV inverters

