

## MEDIUM VOLTAGE INVERTER STATION, CUSTOMIZED UP TO 7.2 MVA

### From 2340 to 7200 kVA

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 (two dual 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: 358 kW/m<sup>3</sup>.

#### Plug & Play technology

This MV solution integrates power conversion equipment –up to 7.2 MVA-, liquid-filled hermetically sealed transformer up to 34.5 kV and provision for low voltage equipment.

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

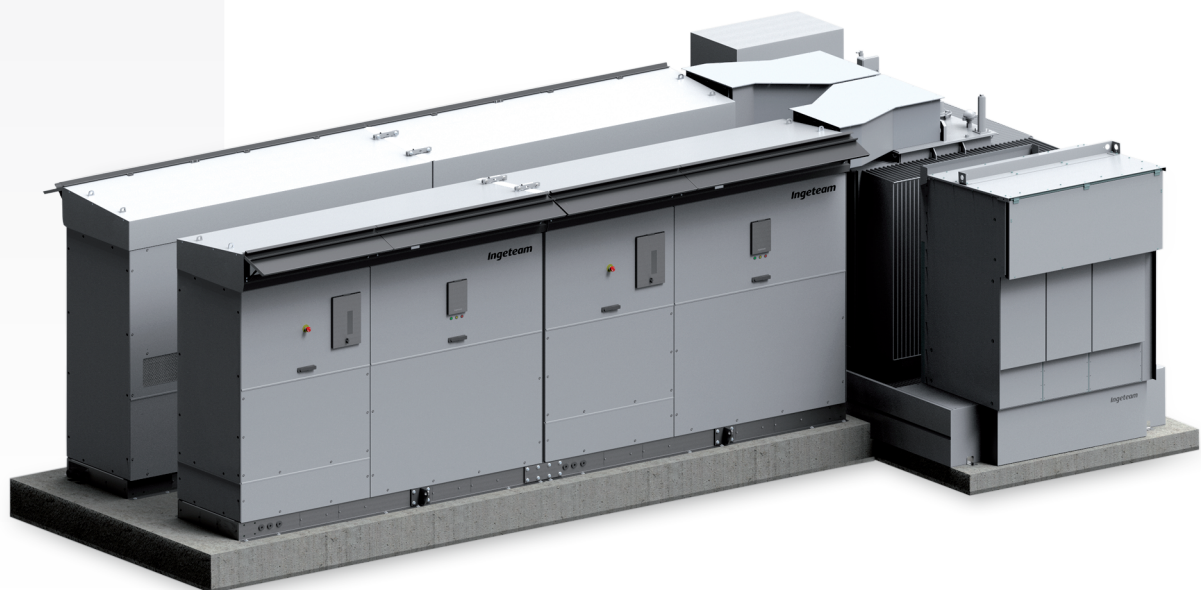
#### Complete accessibility

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.

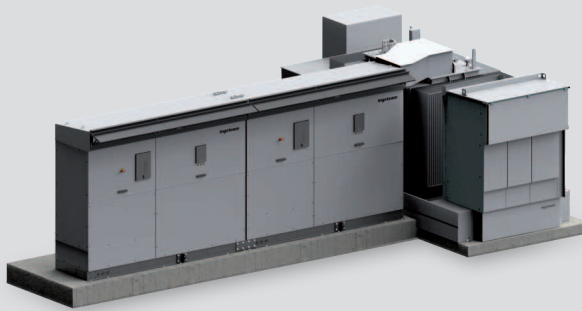
### STANDARD EQUIPMENT

- Up to four inverters with an output power of 7.2 MVA.
- Liquid-filled hermetically sealed transformer up to 34.5 kV.
- Oil-retention tank.
- Frame for installation of LV equipment.
- Minimum installation at project site.

### OPTIONS UPON REQUEST

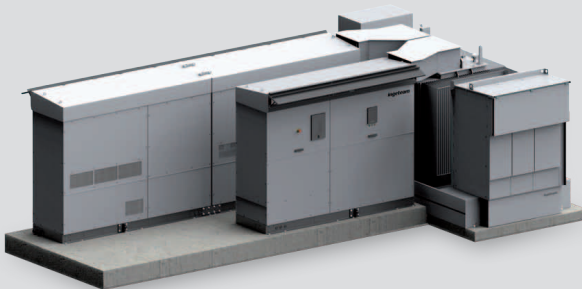
- Electrical gear as per customer necessities: low voltage distribution panels, auxiliary transformers, SCADA panels, and integration on metal frame.
- Metering equipment.
- Remote communications.
- Start-up at the system site.

### Three possible configurations



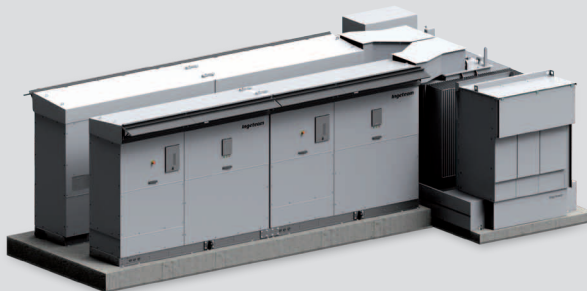
#### Dual Inverter Station

From 2,340 up to 3,600 kVA.



#### Single Inverter + Dual Inverter Station

From 3,510 up to 5,400 kVA.



#### Double Dual Inverter Station (\*)

From 4,680 up to 7,200 kVA.

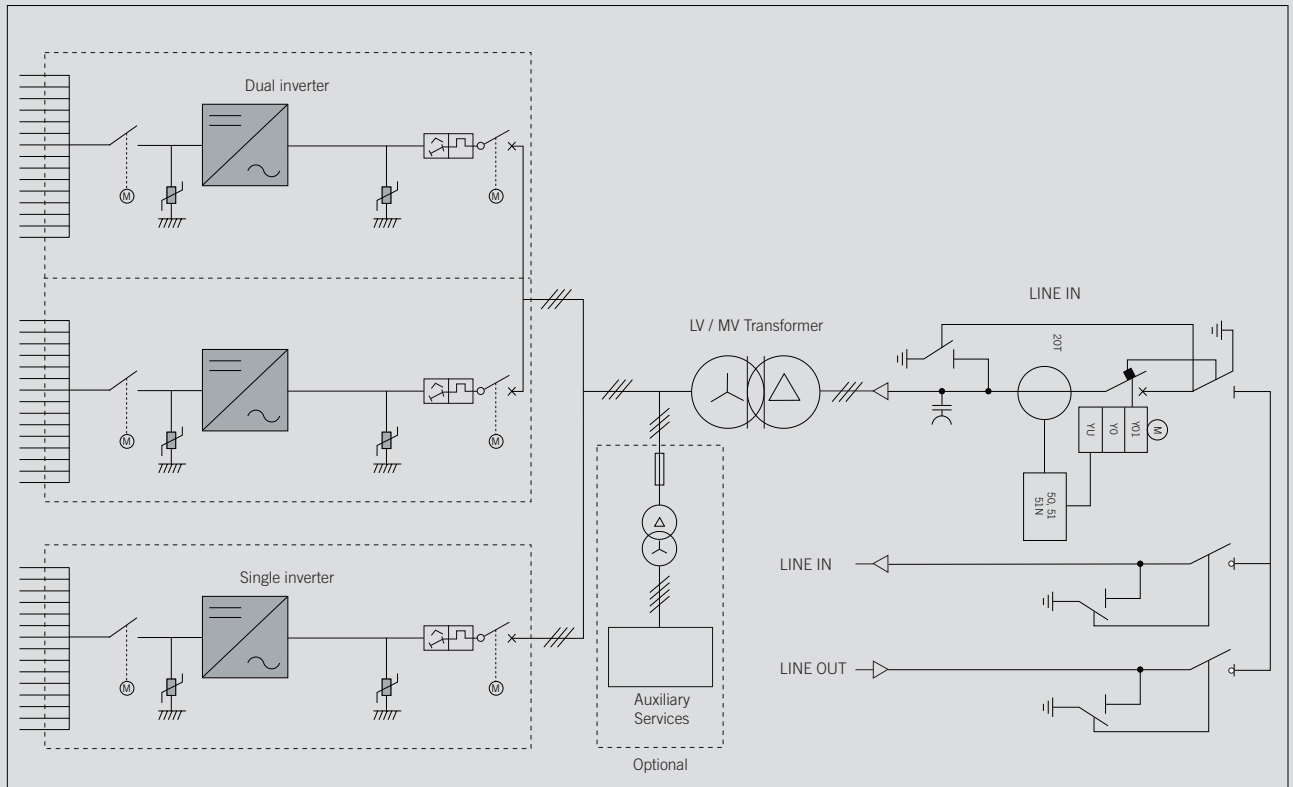
(\*) This configuration should be developed with two MV transformers.

Medium voltage inverter station, customized up to 7.2 MVA

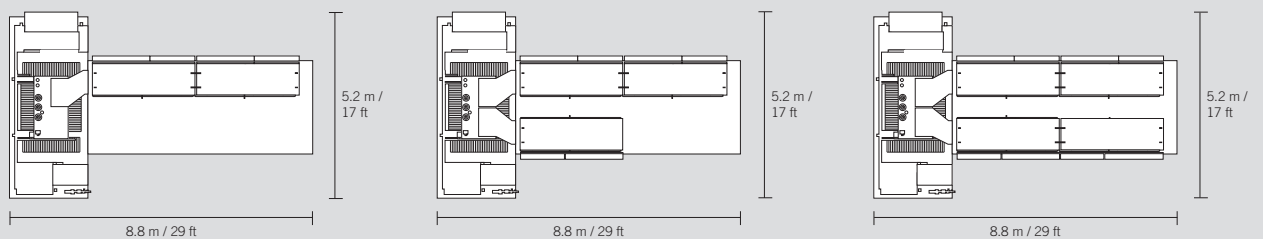
	MSK17 - Dual Inverter	MSK17 - Single + Dual Inverter	MSK17 - Double Dual Inverter
Number of inverters	2	3	4
Rated power @50 °C / 122 °F	3,227 kVA	4,840 kVA	6,454 kVA
Max. power @30 °C / 86 °F	3,586 kVA	5,379 kVA	7,172 kVA
Skid Size	5,200 x 2,100 mm / 17 x 7 ft	5,200 x 2,100 mm / 17 x 7 ft	5,200 x 2,100 mm / 17 x 7 ft
Max. estimated skid weight (without inverters)	12 tons	16 tons	21 tons
Voltage class	24 - 36 kV	24 - 36 kV	24 - 36 kV
Installation altitude <sup>(1)</sup>	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 +60 °C / -4 °F to +140 °F	-20 °C to +60 °C / -4 °F to +140 °F	-20 °C to +60 °C / -4 °F to +140 °F

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

Configuration with three B Series PV inverters



Footprint and layout





# Ingeteam

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