

**MEDIUM VOLTAGE
INVERTER STATION,
CUSTOMIZED
UP TO 5.10 MVA****From 830 to 5100 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 features a LV / MV shelter that can be customized to suit every customer's requirements.

Plug & Play technology

This MV solution integrates power conversion equipment –up to 5.10 MVA-, liquid-filled hermetically sealed transformer up to 34.5 kV and provision for low voltage equipment.

The LV / MV shelter integrates the LV panel, indoor MV switchgear and auxiliary services transformer. It can also feature a UPS for auxiliary services and an air conditioner in order to improve the cooling system.

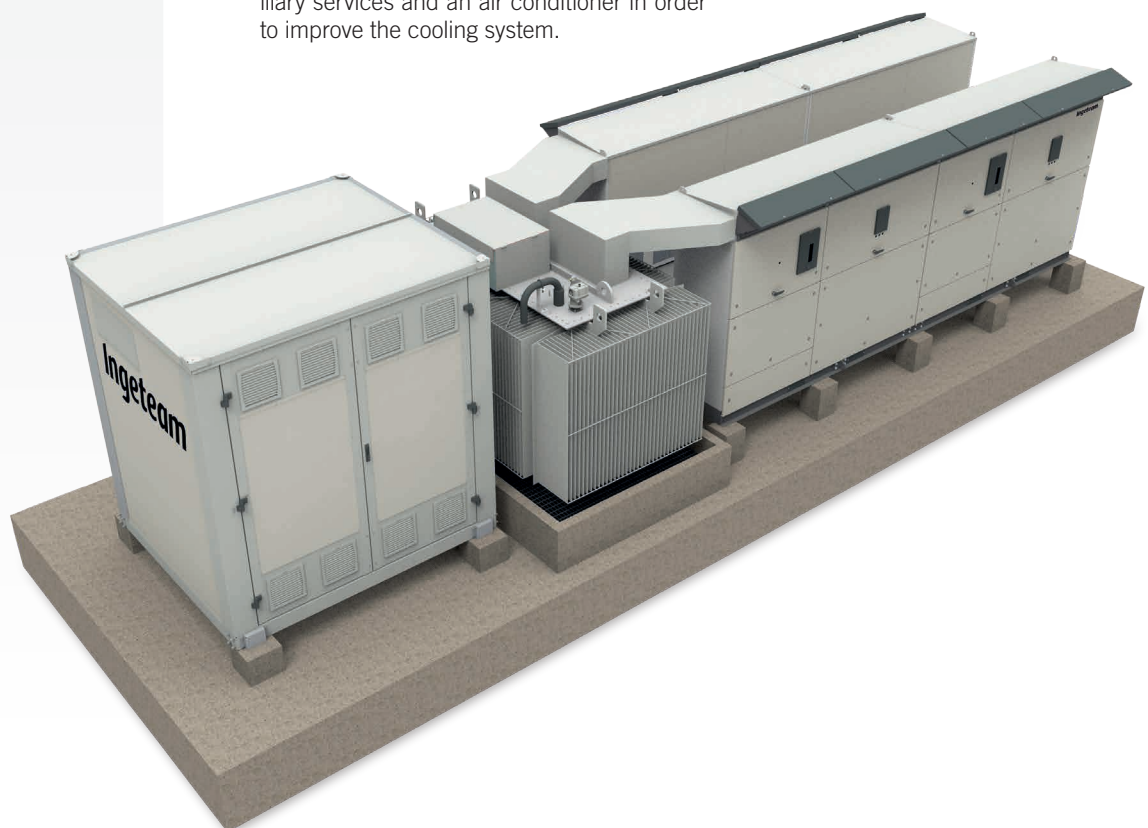
Complete accessibility

Thanks to the lack of housing, the inverters 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. Independent accesses to the shelter's low and medium voltage cubicles.

Maximum protection

Ingeteam 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 5.10 MVA

STANDARD EQUIPMENT

- From one up to four inverters with an output power of 5.10 MVA.
- Liquid-filled hermetically sealed transformer up to 34.5 kV with reduced power losses.
- LV / MV Shelter integrating the LV panel, MV switchgear and auxiliary services transformer.

OPTIONS UPON REQUEST

Electrical gear as per customer necessities:

- Low voltage distribution panels.
- UPS for auxiliary services.
- Start-up at the system site.
- Air conditioning cooling system.
- High-speed Ethernet/Fiber Optic communication system for a plug-and-play connection to the PPC or SCADA.
- INGECON® SUN StringBox with 16, 24 or 32 input strings.
- Gateway for the grid operator to monitor and control the PV plant by using standard protocols, like IEC61850, IEC60870-5-101/104, DNP 3.0, etc.
- Sand trap kit.
- Meteo station.

- Energy meter for the auxiliary services and/or energy production.
- Insulation monitoring relay for the IT systems.
- Reactive power regulation without PV power.
- Ground connection of the PV array.

Four possible configurations



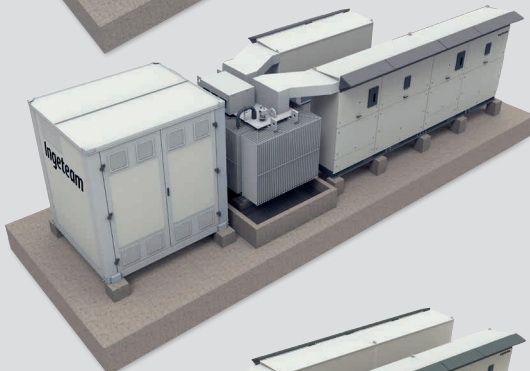
Single Inverter Station

From 830 up to 1,275 kVA.



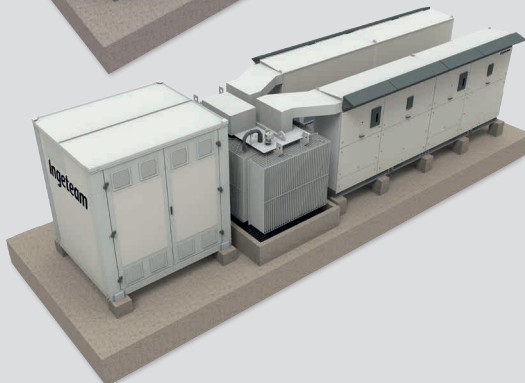
Dual Inverter Station

From 1,660 up to 2,550 kVA.



Single Inverter + Dual Inverter Station

From 2,490 up to 3,825 kVA.



Double Dual Inverter Station

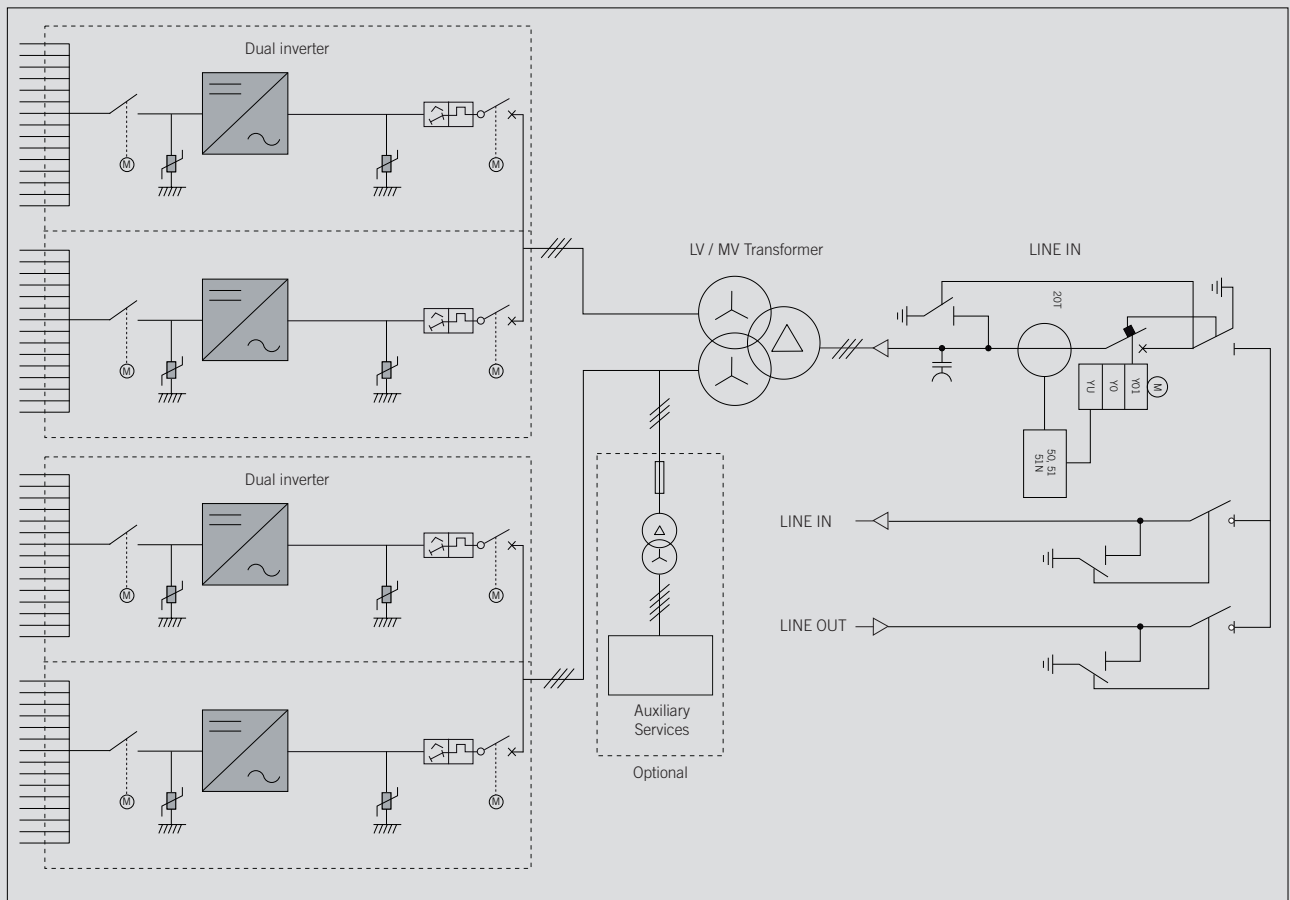
From 3,320 up to 5,100 kVA.

Medium voltage inverter station, customized up to 5.10 MVA

	SHE8 - Single Inverter	SHE8 - Dual Inverter	SHE8 - Single + Dual Inverter	SHE8 - Double Dual Inverter
Number of inverters	1	2	3	4
Power @35 °C / 95 °F ⁽¹⁾	1,275 kVA	2,550 kVA	3,825 kVA	5,100 kVA
Power @50 °C / 122 °F ⁽¹⁾	1,173 kVA	2,346 kVA	3,519 kVA	4,692 kVA
Voltage class	24 - 36 kV	24 - 36 kV	24 - 36 kV	24 - 36 kV
Installation altitude ⁽²⁾	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 ⁽²⁾	-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	-20 °C to +60 °C / -4 °F to +140 °F

Notes: ⁽¹⁾ Power referring to the model INGECON® SUN 1275TL B460 ⁽²⁾ During the RFQ please indicate the maximum ambient temperature, IP rating and altitude in order to size all devices properly.

Configuration with two dual inverters





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