

MEDIUM VOLTAGE INVERTER STATION, CUSTOMIZED UP TO 5.1 MVA

From 1660 to 5100 kVA

This brand new medium voltage solution integrates all the devices required for a multi-mega-watt 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 a great power density: 254 kW/m³.

Plug & Play technology

This MV solution integrates power conversion equipment –up to 5.1 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.

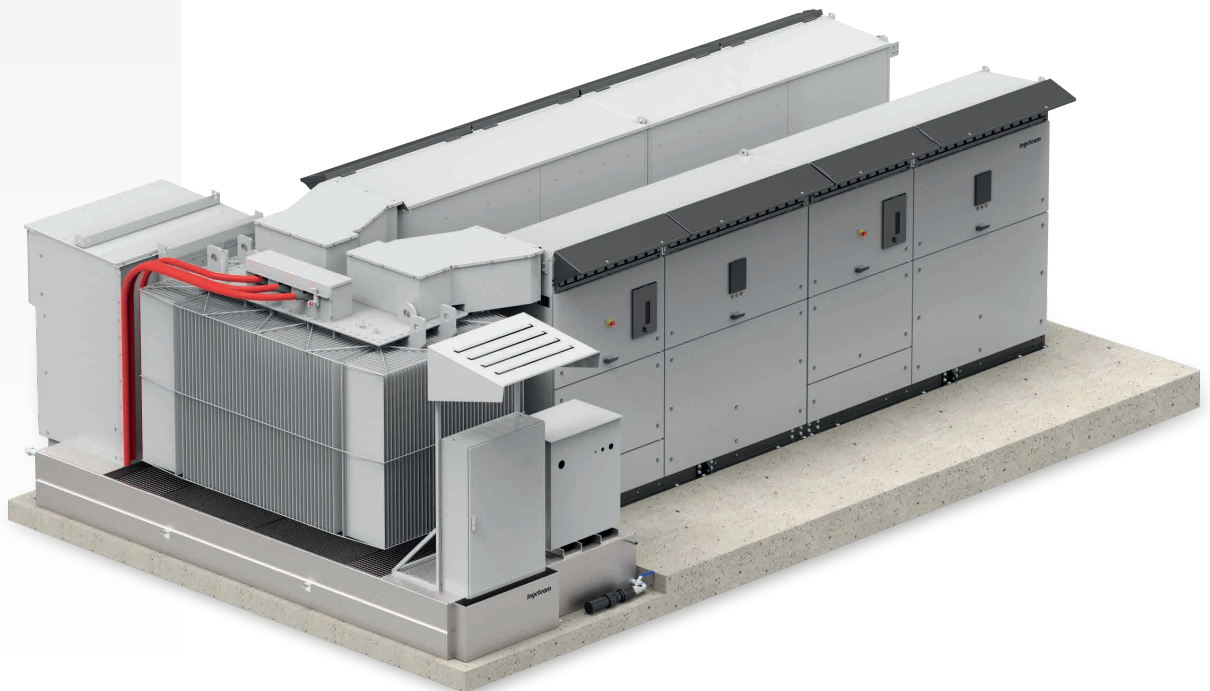
Complete accessibility

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 functionalities 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 dual inverter station, customized up to 5.1 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 5.1 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

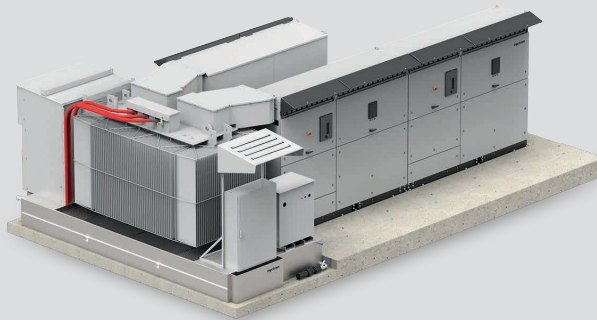
- Electrical gear as per customer necessities: low voltage distribution panels, auxiliary transformers, SCADA panels, and integration on metal frame.
- Metering equipment.
- Remote communications.
- Start-up at the system site.

Three possible configurations



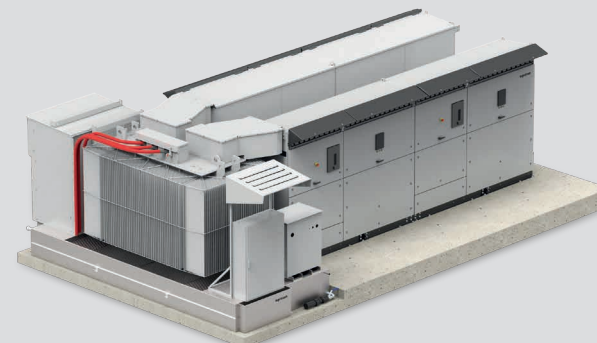
Dual Inverter Station

From 1,660 up to 2,550 kVA.



Single Inverter + Dual Inverter Station

From 2,490 up to 3,825 kVA.



Double Dual Inverter Station

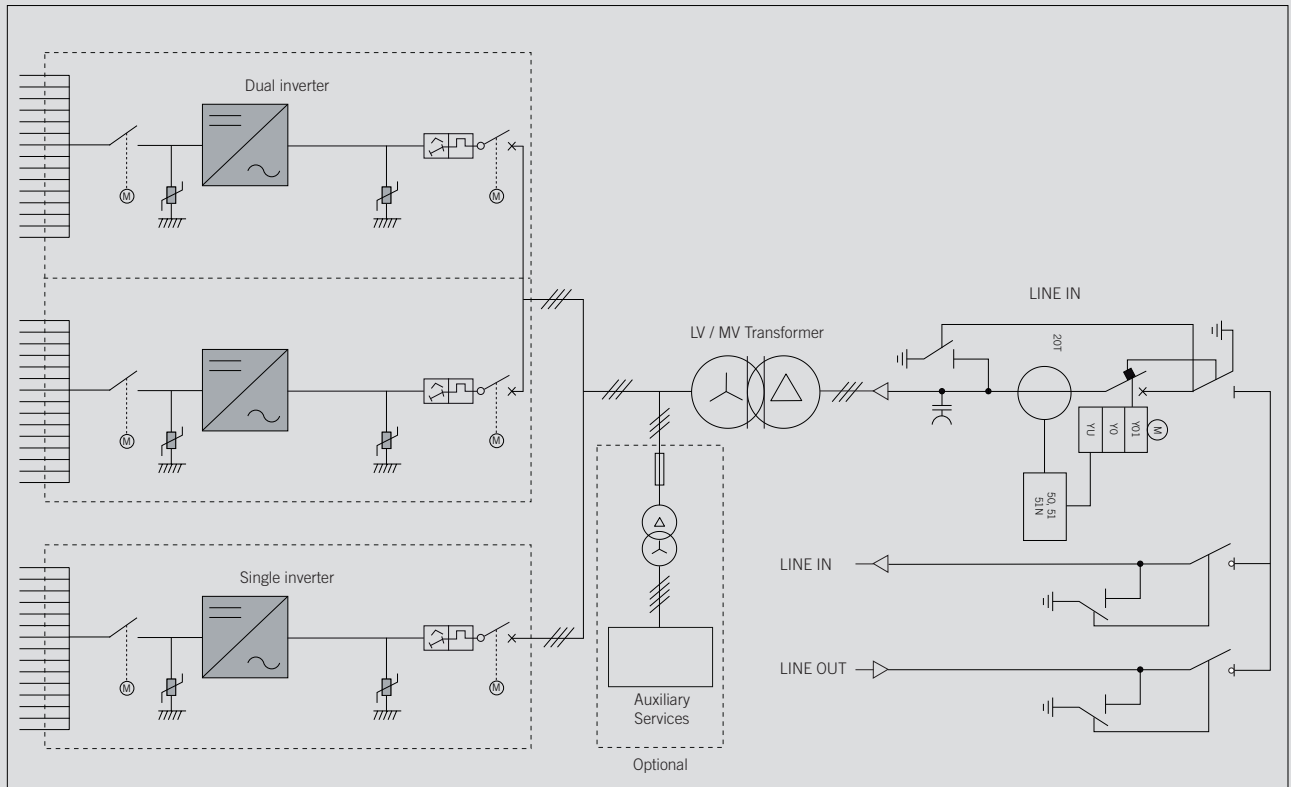
From 3,320 up to 5,100 kVA.

Medium voltage inverter station, customized up to 5.1 MVA

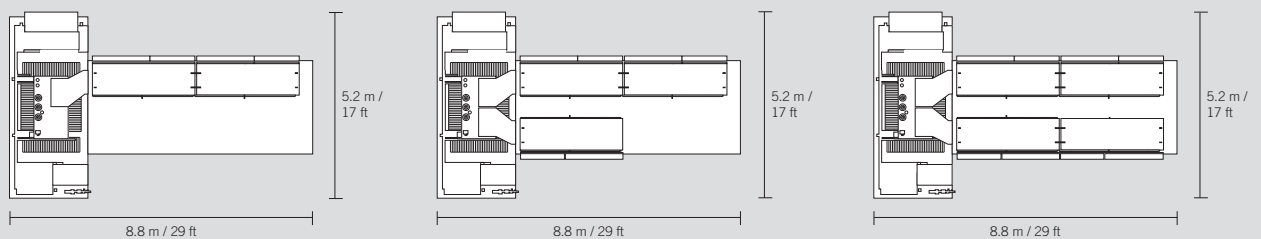
	MSK17 - Dual Inverter	MSK17 - Single + Dual Inverter	MSK17 - Double Dual Inverter
Number of inverters	2	3	4
Rated power @50 °C / 122 °F	2,346 kVA	3,519 kVA	4,692 kVA
Max. power @35 °C / 95 °F	2,550 kVA	3,825 kVA	5,100 kVA
Skid Size	5,200 x 2,100 mm / 17 x 7 ft	5,200 x 2,100 mm / 17 x 7 ft	5,200 x 2,100 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 ⁽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)
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: ⁽¹⁾ 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 Power Technology, S.A.
Avda. Ciudad de la Innovación, 13
31621 SARRIGUREN (Navarra) - Spain
Tel.: +34 948 288 000 / Fax: +34 948 288 001
e-mail: solar.energy@ingeteam.com

Ingeteam S.r.l.
Via Emilia Ponente, 232
48014 CASTEL BOLOGNESE (RA) - Italy
Tel.: +39 0546 651 490 / Fax: +39 054 665 5391
e-mail: italia.energy@ingeteam.com

Ingeteam SAS
La Naurouze B - 140 rue Carmin
31670 Labège - France
Tel: +33 (0)5 61 25 00 00 / Fax: +33 (0)5 61 25 00 11
e-mail: france@ingeteam.com

Ingeteam INC.
3550 W. Canal St.
MILWAUKEE, WI 53208 - USA
Tel.: +1 (414) 934 4100 / +1 (855) 821 7190 / Fax: +1 (414) 342 0736
e-mail: solar.us@ingeteam.com

Ingeteam, a.s.
Technologická 371/1
70800 OSTRAVA - PUSTKOVEC
Czech Republic
Tel.: +420 59 732 6800 / Fax: +420 59 732 6899
e-mail: czech@ingeteam.com

Ingeteam, S.A. de C.V.
Ave. Revolución, n° 643, Local 9
Colonia Jardín Español - MONTERREY
64820 - NUEVO LEÓN - México
Tel.: +52 81 8311 4858 / Fax: +52 81 8311 4859
e-mail: northamerica@ingeteam.com

Ingeteam Ltda.
Rua Estácio de Sá, 560
Jd. Santa Genebra
13080-010 Campinas/SP - Brazil
Tel.: +55 19 3037 3773
e-mail: brazil@ingeteam.com

Ingeteam Pty Ltd.
Unit 2 Alphen Square South
16th Road, Randjiespark
Midrand 1682 - South Africa
Tel.: +2711 314 3190 / Fax: +2711 314 2420
e-mail: southafrica@ingeteam.com

Ingeteam SpA
Los militares 5890, Torre A, oficina 401
7560742 - Las Condes
Santiago de Chile - Chile
Tel.: +56 2 29574531
e-mail: chile@ingeteam.com

Ingeteam Power Technology India Pvt. Ltd.
2nd Floor, 431
Udyog Vihar, Phase III
122016 Gurgaon (Haryana) - India
Tel.: +91 124 420 6491-5 / Fax: +91 124 420 6493
e-mail: india@ingeteam.com

Ingeteam Sp. z o.o.
Ul. Koszykowa 60/62 m 39
00-673 Warszawa - Poland
Tel.: +48 22 821 9930 / Fax: +48 22 821 9931
e-mail: polska@ingeteam.com

Ingeteam Australia Pty Ltd.
iAccelerate Centre, Building 239
Innovation Campus, Squires Way
North Wollongong, NSW 2500 - Australia
Tel.: +61 499 988 022
e-mail: australia@ingeteam.com

Ingeteam Panama S.A.
Calle Manuel Espinosa Batista, Ed. Torre Internacional
Business Center, Apto./Local 407 Urb.C45 Bella Vista
Bella Vista - Panama
Tel.: +50 761 329 467

Ingeteam Service S.R.L.
Bucuresti, Sector 2, Bulevardul Dimitrie Pompeiu Nr 5-7
Cladirea Hermes Business Campus 1, Birou 236, Etaj 2
Romania
Tel.: +40 728 993 202

Ingeteam Philippines Inc.
Office 2, Unit 330, Milelong Bldg.
Amorsolo corner Rufin St.
1230 Makati
Gran Manila - Philippines
Tel.: +63 0917 677 6039

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