INGECON SUN

InverterStation U
1,000 Vdc

MEDIUM VOLTAGE INVERTER STATION, CUSTOMIZED UP TO 3.83 MVA

MV Solution up to 3825 kVA at 1000 Vdc

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 three photovoltaic inverters (one dual plus one single inverter). 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 a pad-mounted integrating the HV switching and fuse protection. Moreover, it features a great power density: 3.69 W/in^3.

Plug & Play technology

This MV solution integrates power conversion equipment –up to 3.83 MVA- and a liquid-filled pad-mounted transformer up to 35 kV. The Inverter Station has been conceived for a fast on-site connection with up to three PV inverters from Ingeteam's B Series central inverter family.

Complete accessibility

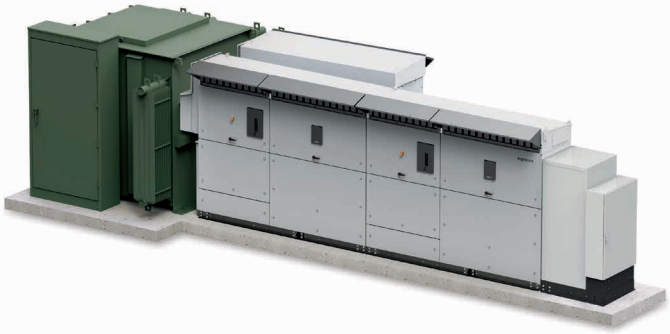
Thanks to the lack of housing, the inverters, the switchgear and the transformer can have immediate access. Furthermore, the design of the B Series central inverters has been conceived to facilitate maintenance and repair works.

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.

UL 1741 SA COMPLIANT



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Ingeteam

Medium voltage inverter station, customized up to 3.83 MVA

CONSTRUCTION

- Suitable for slab mounting.
- Compact design, minimizing freight costs.

TRANSFORMER FUNCTIONS

- Standard temperature and altitude service conditions as per ANSI IEE C57.12.00.
- Dead Front Loop Feed arrangement.
- Reduced power losses: high efficiencies rated at 50% load.
- Electrostatic shield, reducing disturbances, distorsions and overvoltages.
- Drain valve with sampling device.
- Upper fill valve.
- Liquid level and pressure vacuum gauges with auxiliary contacts.
- Dial type thermometer gauge with auxiliary contacts.
- T-blade switch rated 200 A for loop configuration.
- Dead front HV bushings rated 200 A.

STANDARD EQUIPMENT

- Up to three inverters with an output power of 3.83 MVA.
- Liquid-filled pad-mounted MV transformer up to 35 kV class (ask Ingeteam for transformer details).
- On-site commissioning and training.
- Remote communications.
- Minimum site installation with close-coupled AC flex copper busbars.
- Minimum site installation with close-coupled AC flex copper busbars. AC cabling instead of busbars also available upon request.
- Auxiliary Services Transformer.
- Auxiliary Services Panel.

	SKL - Single Inverter	SKL - Dual Inverter	SKL - Dual + Single Inverter
Number of inverters	1	2	3
Rated power @ 122 °F / 50 °C	1,173 kVA	2,346 kVA	3,519 kVA
Max. power @ 86 °F / 30 °C	1,275 kVA	2,550 kVA	3,825 kVA
Voltage class	12 - 35 kV	12 - 35 kV	12 - 35 kV
Maximum altitude[1]	14,750 ft / 4,500 m	14,750 ft / 4,500 m	14,750 ft / 4,500 m
Operating temperature range	-4 °F to +131 °F / -20 °C to +55 °C	-4 °F to +131 °F / -20 °C to +55 °C	-4 °F to +131 °F / -20 °C to +55 °C
Protection class	NEMA 3R	NEMA 3R	NEMA 3R
Dimensions without MV transformer	13.13 ft / 4,003 mm	22.39 ft / 6,823 mm	22.39 ft / 6,823 mm

Notes: [1] For installations beyond 3,300 ft / 1,000 m, please contact Ingeteam's solar sales department.

Configuration (Dual Inverter solution)