

MV POWER STATION UP TO 5.4 MVA FULL SKID POWER STATION WITH A GREATER POWER DENSITY

This brand new medium voltage solution integrates all the devices required for a multimegawatt system.

Maximize your investment with a minimal effort

Ingeteam's Power Station is a compact, customizable and flexible solution that can be configured to suit each customer's requirements. It is supplied together with one central PV 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 Power Station is now more versatile, as it presents only three elements: the step-up power transformer, MV switchgear and a central inverter that features the auxiliary services panel and the auxiliary services transformer installed inside the inverter. Moreover, it features a great power density: 503 kW/m³.

Complete accessibility

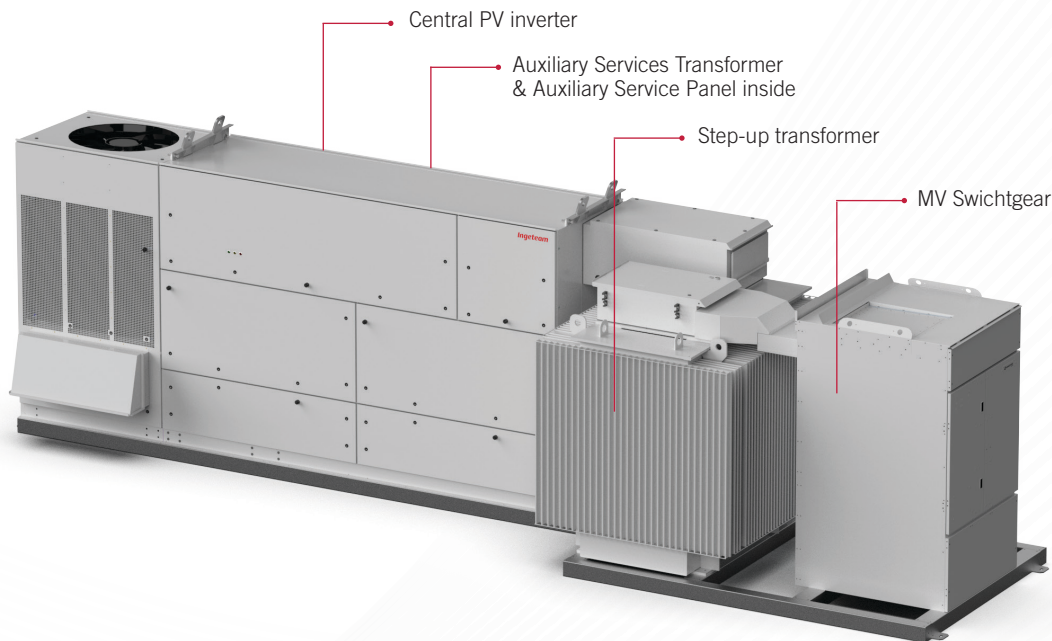
Thanks to the lack of housing, the inverter and the step-up power transformer and the MV switchgear can have immediate access. Furthermore, the design of the C Series central inverter has been conceived to facilitate maintenance and repair works.

Maximum protection

Ingeteam's C 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.

MV POWER STATION UP TO 5.4 MVA

Full skid power station with a greater power density



Construction

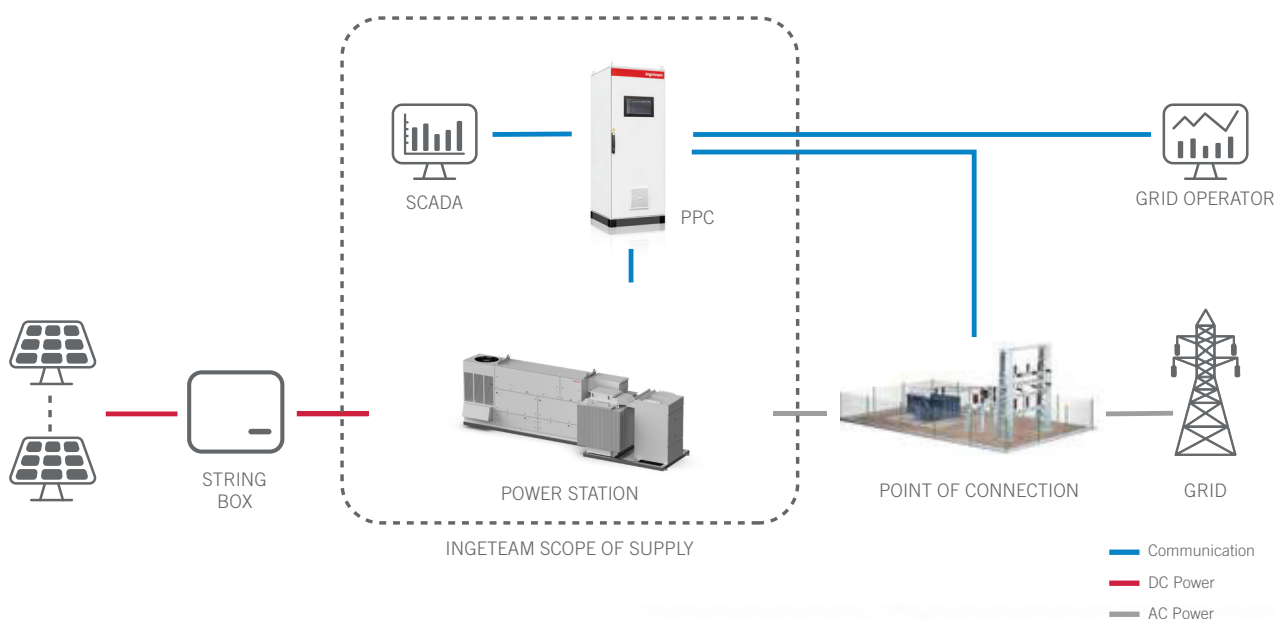
- Suitable for slab or piers mounting.
- Compact design, minimizing freight costs.

Standard equipment

- One central PV inverter up to 5.4 MVA.
- 34.5 kV KNAN transformer.
- Self-powered auxiliary services panel.
- 25 kVA ancillary transformer (5 kVA for customer needs at 120 V)

Optional auxiliary services

- MCB protection.
- Surge arrester type I and II.
- Comms switch Ethernet-F.O.
- RTU 8DI 24VDC.
- Auxiliary circuits & US socket.
- Up to 65 kVA ancillary transformer (45 kVA for customer needs: 35 kVA at 480 V + 10 kVA at 120 V)



Specifications included in this datasheet could change without notice. Please contact Ingeteam's sales department in case of any queries.

INGECON SUN FSK U_5380TL_CSERIES_REV_A2

FSK 5030

FSK 5150

FSK 5270

GENERAL DATA

Number of inverters	1		
Max. power @37 °C / 98,6 °F	5,030 kVA	5,150 kVA	5,270 kVA
Operating temperature range	from -4 °F to +122 °F		
Relative humidity (non-condensing)	0 - 100%		
Maximum altitude	3,000 masl (power derating starting at 1,000 masl)		

STEP-UP TRANSFORMER

AC voltage	645 V / 34.5kV	660 V / 34.5 kV	675 V / 34.5 kV
Cooling system	KNAN		
Vector group	Dy11		
System impedance	7-8 %		
Transformer no load taps	±2.5%, ±5.0%		
Efficiency at 100% load	99%		

MV SWICHTGEAR

Type	RLC (bus riser, line incoming with disconnecting switch, transformer protection)		
Medium voltage	34.5 kV		
Rated current	600 A		
MV connection	Elbow connector type E 5/8" interface (optional: double elbow connector)		

EQUIPMENT

Inverters	INGECON® SUN 3Power U C Series inverters		
Auxiliary services panel	Self powered version		
Step-up transformer	Oil-inmersed hermetically sealed transformer		
MV Protection	Outdoor switchgear		

MECHANICAL INFORMATION

Dimensions (L x W x H)	8,290 x 1,950 x 2,331 mm		
Standards	IEC 62116, UL1741-SB, IEEE1547, IEEE1547.1, NEC CODE, Electric Rule 21: 2015, CSA22.2 No107		

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