

MV POWER STATION UP TO 5.4 MVA PAD MOUNTED TRANSFORMER 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 two elements: the pad-mounted transformer and a central inverter that features the auxiliary services panel and the auxiliary services transformer in-stalled inside the inverter. Moreover, it features a great power density: 503 kW/m³.

Complete accessibility

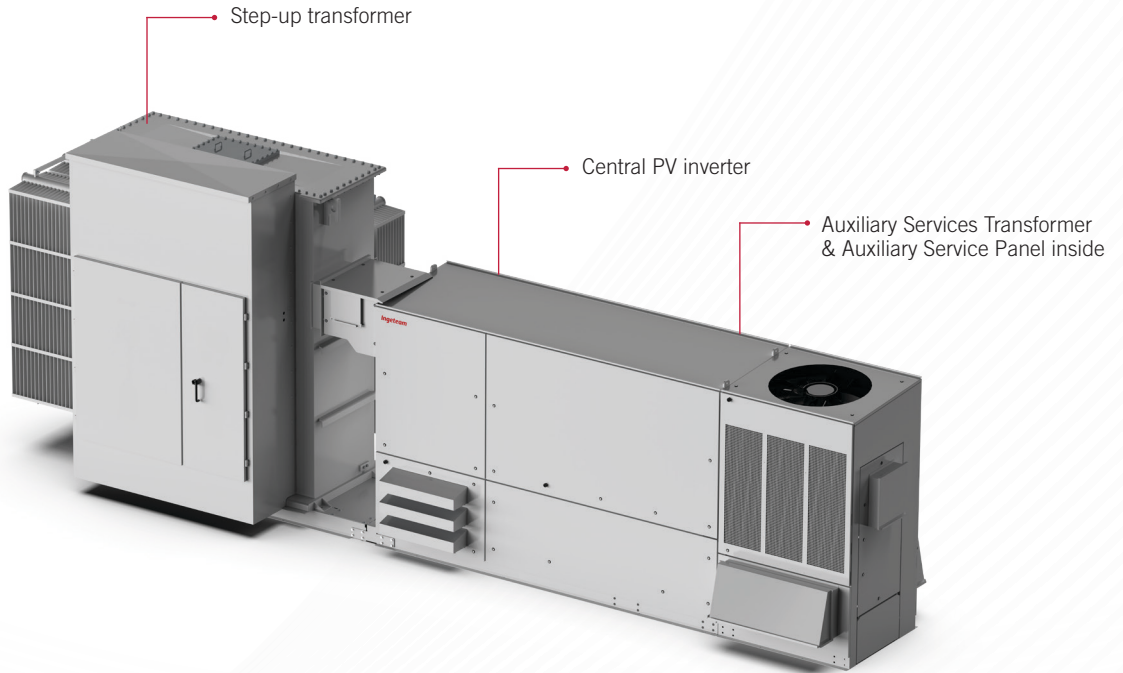
Thanks to the lack of housing, the inverter and the pad-mounted transformer with the integrated MV protections can have immediate access. Furthermore, the design of the C Series central inverter has been conceived to facilitate maintenance and repair works.

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 ridothrough 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

Pad mounted transformer station with a greater power density



Construction

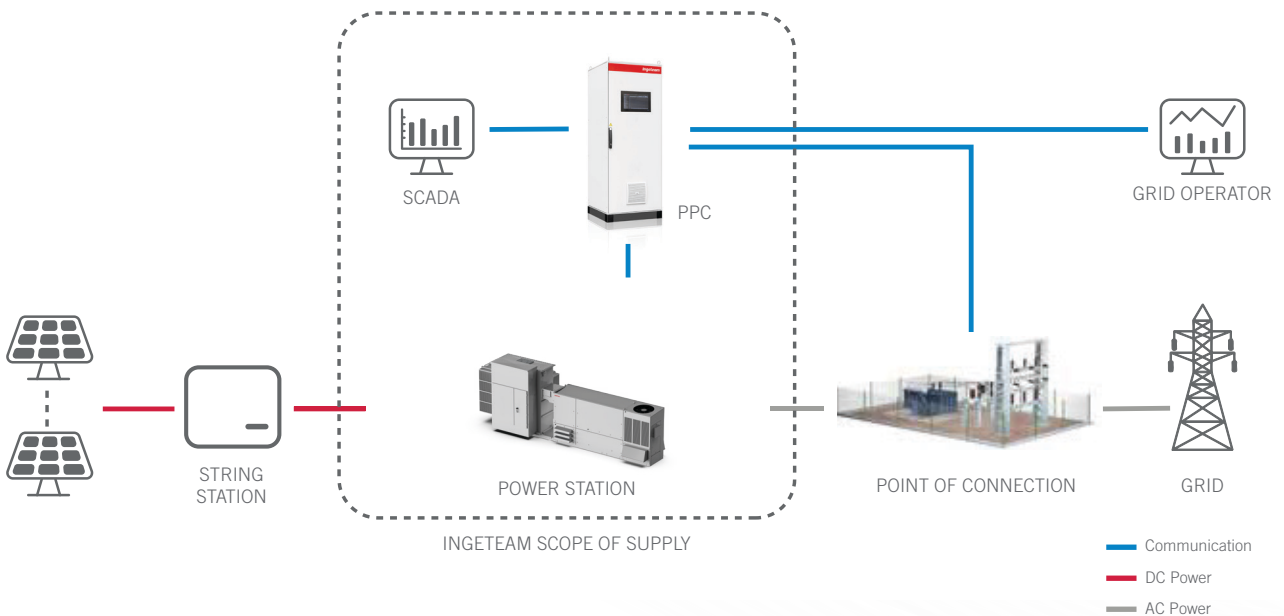
- Suitable for slab or piers mounting.
- Compact design, minimizing freight costs.

Standard equipment

- One central PV inverter up to 5.4 MVA.
- 34.5 kV pad-mounted transformer.
- Self-powered auxiliary services panel.
- 16 kVA ancillary transformer (5 kVA for customer needs at 120 V)
- Power plant commissioning services.

Optional auxiliary services

- MCB protection
- Surge arrester type II
- Comms switch Ethernet-F.O.
- RTU 8DI 24VDC
- Auxiliary circuits & US socket
- Up to 60 kVA ancillary transformer (45 kVA for customer needs: 40 kVA at 480 V + 5 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 PMT U C 5MW_Rev_A3

PMT 5030

PMT 5150

PMT 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% | | |
| MV connection | 600 A, dead front, loop feed bushings | | |
| MV fusing | overcurrent protection oil immersed expulsion fuse with ELSP current-limiting backup fuse | | |
| MV disconnect | Two-position, 200 A, under oil load break switch | | |
| Efficiency at 100% load | 99% | | |

EQUIPMENT

| | | | |
|--------------------------|--|--|--|
| Inverters | INGECON® SUN 3Power U C Series inverters | | |
| Auxiliary services panel | Self powered version | | |
| Step-up transformer | Pad mounted transformer | | |

MECHANICAL INFORMATION

| | | | |
|------------------------|---|--|--|
| Dimensions (L x W x H) | 9,668 x 2,312 x 2,956 mm | | |
| Standards | IEC 62116, UL1741-SB, IEEE1547, IEEE1547.1, NEC CODE, Electric Rule 21: 2015, CSA22.2 No107 | | |

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