

TRANSFORMER COMPACT STATION 1000SC / 1250SC / 1600SC / 1800SC



TCS-1000-SC / TCS-1250-SC / TCS-1600-SC / TCS-1800-SC



Cost efficient

- Simplified transport due to low weight
- Significant savings in PV farm road construction

Simple

- Complete turnkey solution in concrete construction
- Ideally suited for the central inverters of the CP series

Innovative

- Optimal steel enclosure for even easier transport
- Amorphous transformer for minimal no load losses

Extendable

- Medium-voltage switchgear for modular construction of PV farms
- Transformer for internal power to supply the inverter

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Compact for medium voltage

The Transformer Compact Station - now also for 1800 kVA nominal power - is the ideal link between SMA central inverters and the medium-voltage grid. As a complete turnkey solution in a concrete design, it provides all options - from medium-voltage switchgear to amorphous transformer with greatly reduced no load losses. In steel design, it is also significantly smaller and lighter than the previous solutions, saving time and money. The Transformer Compact Station 1600SC and 1800SC include as standard equipment an adjustable voltage tap that can be controlled easily with a rotary switch, making the device an ideal companion for the central inverters from the CP series.

OPTIONS

Amorphous transformer

A transformer with amorphous core reduces no load losses by approximately 70 percent compared to a transformer with an iron core (loss class C). For example, no load losses of a 1,600 kVA transformer with iron core: 1,700 W. No load losses with an amorphous core: 510 W. Energy savings in 20 years: approximately 200,000 kWh.

Medium-voltage switchgear

Using medium-voltage switchgear, several transformer stations can be connected in a string or a ring. This allows modular construction of large PV farms.

Communit

The Communit communication distributor is designed to house and wire together all communication components used in large-scale PV plants with SUNNY CENTRAL.

Transformer for auxiliary power supply

A transformer for auxiliary power supplies the transformer station and the attached inverters directly from the medium-voltage grid.

Steel enclosure

With the compact and light steel enclosure, the weight of the transformer station is reduced by 50 to 75 percent, meaning easier and less expensive transport.

Low-voltage switchgear

On demand, the standard LV/HRC fuse switch-disconnectors can be replaced by circuit breakers.

Use in a chemically aggressive environment

If desired, the TRANSFORMER COMPACT STATION can be optimized for use in a chemically aggressive environment, such as for seaside installation.

