

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



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



High Yields

- Amorphous transformer for minimal open-circuit losses
- Optimized cooling concept for maximum availability

Simple

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

Reliable

- PV optimized transformers

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. 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 XT 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 1600 kVA transformer with iron core: 1700 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.

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.

