

Installation Requirements

for various station concepts of the

**TRANSFORMER COMPACT STATION 500SC/630SC/800SC/900SC/
1000SC/1250SC/1600SC/1800SC**



Content

The Transformer Compact Station is the ideal link between a central inverter and the medium-voltage grid. These installation requirements will help you when planning PV plants with Sunny Central and the Transformer Compact Station. This document is valid for the following products:

- Transformer Compact Station 500SC
- Transformer Compact Station 630SC
- Transformer Compact Station 800SC
- Transformer Compact Station 900SC^{a)}
- Transformer Compact Station 1000SC
- Transformer Compact Station 1250SC
- Transformer Compact Station 1600SC
- Transformer Compact Station 1800SC^{a)}

^{a)} Only for Germany

The models are country-specific and may differ from the figures.

1 Dimensions

1.1 External Dimensions

The external dimensions of the country-specific models of the station vary and are presented in the following table. For floor plan diagrams, see Section 1.2 „Floor Plan“ (page 4).

Please note the special features of the station models, if you ordered the option "Medium-voltage transformer with amorphous core".

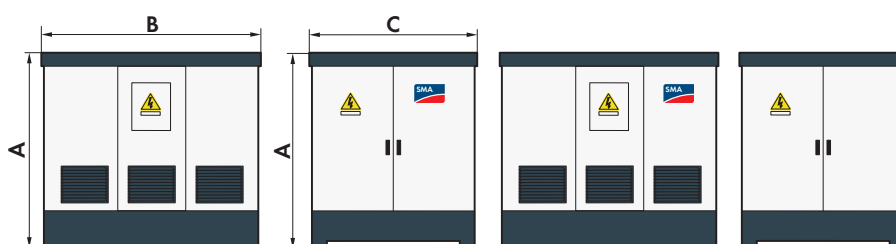


Figure 1: Dimensions of the Transformer Compact Station

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	A [mm]	B [mm]	C [mm]	Floor plan no.
DE (vers. 1)	X	-	X	X	-	2,710	2,720	2,520	I
	X	-	X ^{a)}	-	X	2,370	3,220	2,070	III
	X	-	-	X	X	2,710	3,220	2,520	II
DE (vers. 2)	X	-	X ^{b)}	-	-	2,380	2,460	2,040	I
	X	-	X ^{b)}	-	X	2,380	2,960	2,040	II
	X	-	-	X	-/X	2,520	3,120	2,520	II
DE, GR	-	X	X	-	-/X	2,340	3,000	2,300	II
	-	X	-	X	-/X	2,638	3,000	2,300	II
CZ	X	-	X	-	-	2,380	2,460	2,040	I
	X	-	X	-	X	2,380	2,960	2,040	II
	X	-	-	X	-/X	2,520	3,120	2,520	II
ES	X	-	X	X	-/X	3,100	3,708	2,520	IV

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	A [mm]	B [mm]	C [mm]	Floor plan no.
FR	X	-	X	-	-/X	2,695	3,030	1,930	III
	X	-	-	X	-/X	2,990	3,230	2,630	II
BG, RO, GR (vers. 1)	X	-	X	-	-/X	2,500	3,020	2,220	II
	X	-	-	X	-/X	2,600	3,220	2,520	II
IT, GR (vers. 2)	X	-	X	X	-	2,550	2,580	2,660	I
	X	-	X	X	X	2,550	3,440	2,660	II
UK	X	-	X ^{c)}	-	-/X	3,550	3,620	2,620	II
	X	-	-	X ^{d)}	-/X	3,550	4,620	2,620	V
AU	-	X ^{e)}	X	X	-/X	2,833	3,909	1,835	II

a) For TCS 800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC/1800SC

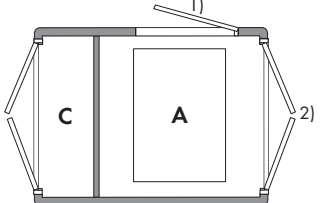
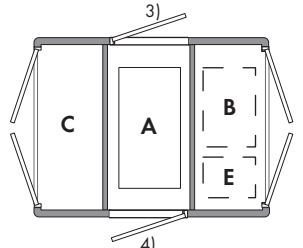
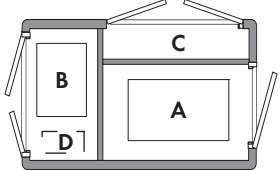
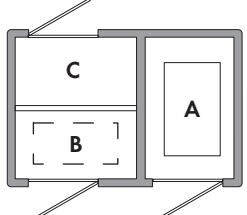
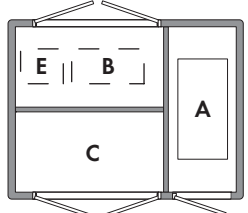
b) For TCS 500SC/630SC/800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC/1800SC

c) TCS 500SC/630SC/800SC/1000SC/1250SC

d) Only TCS 1600SC

e) With concrete base for station building

1.2 Floor Plan

Floor plan no.	Floor plan	Floor plan no.	Floor plan
I	 <p>1) Door only available for DE (vers. 1) (TCS 500SC/630SC/800SC/900SC). 2) Doors only available for DE (vers. 1), IT, GR (vers. 2).</p>	II	 <p>3) Door only available for BG, GR (vers. 1), UK. 4) Door only available for DE (vers. 2), CZ, IT, GR (vers. 2), BG, GR (vers. 1), FR.</p>
III		IV	
V			

A	Transformer	D	Low-voltage switchgear ^{a)}
B	Medium-voltage switchgear	E	Transformer for auxiliary power supply, optional ^{b)}
C	Low-voltage side: <ul style="list-style-type: none"> • Low-voltage switchgear • Transformer for auxiliary power supply, optional • Communit, optional 		

^{a)} The low-voltage switchgear is only located in the medium-voltage switchgear room of the TCS 500SC/630SC/800SC for FR.

^{b)} The transformer for auxiliary power supply is only located in the medium-voltage switchgear room of the TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC for UK.

2 Enclosure Opening

The openings for the cables to the low-voltage switchgear and the medium-voltage switchgear are provided in the Transformer Compact Station.

Country, version	Transformer Compact Station	Enclosure opening low-voltage side	Enclosure opening medium-voltage side
DE (vers. 1, 2), CZ	TCS 500SC/630SC/800SC/900SC/1000SC/1250SC/1600SC/1800SC concrete model	Based on design, present via opening in the cable vault	2 Hauff HSI 150
DE, GR	TCS 500SC/630SC/800SC/900SC/1000SC/1250SC/1600SC/1800SC steel model	Based on design, present via opening in the cable vault	Based on design, present via opening in the cable vault
ES	TCS 500SC/630SC/800SC	3 Roxtec R 200	3 Roxtec R 200
	TCS 1000SC/1250SC/1600SC	6 Roxtec R 200	3 Roxtec R 200
FR	TCS 500SC/630SC/800SC	2 UGA BKD-150	2 UGA BKD-150
	TCS 1000SC/1250SC/1600SC	Based on design, present via opening in the cable vault	2 UGA BKD-150
BG, RO, GR (vers. 1)	TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC	Based on design, present via opening in the cable vault	3 Hauff HSI 150
IT, GR (vers. 2) ^{a)}	TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC	4 Hauff HSI 150	2 Hauff HSI 150
UK	TCS 500SC/630SC/800SC/1000SC	4 UGA BKD-150	3 UGA BKD-150
	TCS 1250SC/1600SC	6 UGA BKD-150	3 UGA BKD-150
AU	TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC	Based on design, present via screw-locked openings in the cable vault	Based on design, present via screw-locked openings in the cable vault

^{a)} The system lids for the enclosure openings on these Transformer Compact Stations are included in delivery.

Appropriate system lids for the enclosure openings specified must be provided on site. This does not apply to enclosure openings with openings based on design in the cable vault or for the Transformer Compact Station for Italy and Greece (version 2).

Examples of enclosure openings

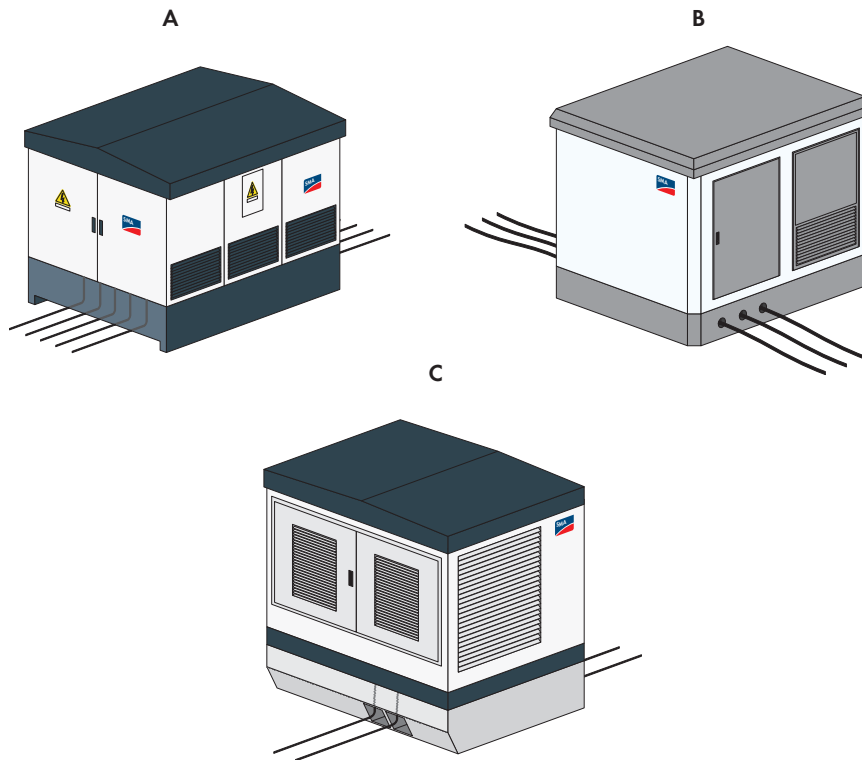


Figure 2: Examples of enclosure openings in Transformer Compact Stations

Position	Description
A	Enclosure openings without system lids on the low-voltage and medium-voltage side
B	Enclosure openings with system lids on the low-voltage and medium-voltage side
C	Enclosure openings without system lids on the low-voltage side and with system lids on the medium-voltage side

3 At the Installation Site

3.1 General Information

Chemically Active Environment

For installation near the sea (within 5 km of the sea), SMA Solar Technology AG will only assume the warranty if the "Operation in a chemically aggressive environment" option is selected. SMA Solar Technology AG also recommends this option for installation between 5 and 50 km away from the sea.

Groundwater Level

Remember to consider the level of the water table to ensure that the Transformer Compact Station is firmly supported.

Drainage

A drainage system should be provided on site to protect the Transformer Compact Station and inverters from water penetration.

Clearances

When installing the Transformer Compact Station in large-scale PV plants, the following clearances must be observed:

- Safety clearance of 5,000 mm to inflammable objects
- Minimum clearances in accordance with local fire safety requirements
- Minimum clearances for country-specific versions of the Transformer Compact Station (see Section 3.2 „Minimum Clearances“ (page 8))

During installation, note the position of the central inverter relative to the Transformer Compact Station (see Section 3.4 „Installation Examples“ (page 12)).

3.2 Minimum Clearances

The minimum clearances which correspond to the floor plan of your Transformer Compact Station are listed in the table and must be complied with.

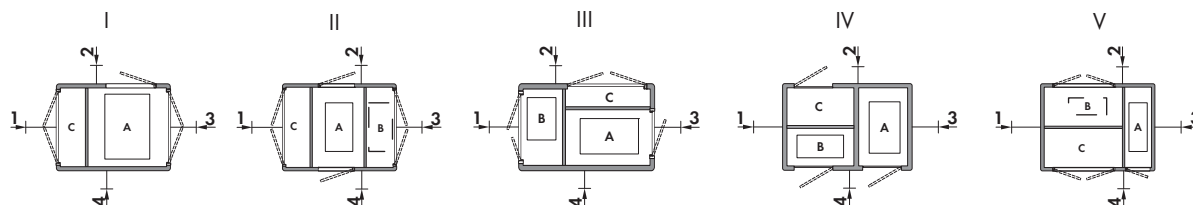


Figure 3: Minimum clearances for various Transformer Compact Stations

A Transformer

B Medium-voltage switchgear

C Low-voltage side

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	Floor plan	Minimum clearance 1 [mm]	Minimum clearance 2 [mm]	Minimum clearance 3 [mm]	Minimum clearance 4 [mm]
DE (vers. 1)	X	-	X	-	-	I	1,700	1,800	1,000	1,000
	X	-	-	X	-	I	1,700	1,000	1,800	1,000
	X	-	X ^{a)}	-	X	III	1,500	1,500	1,700	1,000
	X	-	-	X	X	II	1,700	1,000	1,700	1,000
DE (vers. 2)	X	-	X ^{b)}	-	-	I	1,500	1,000	1,000	1,000
	X	-	X ^{b)}	-	X	II	1,500	1,000	1,500	1,000
	X	-	-	X	-/X	II	1,700	1,700	1,700	1,000
DE, GR	-	X	X	X	-/X	II	1,600	1,000	1,600	1,000
CZ	X	-	X	-	-	I	1,500	1,000	1,000	1,000
	X	-	X	-	X	II	1,500	1,000	1,500	1,000
	X	-	-	X	-/X	II	1,700	1,700	1,700	1,000
ES	X	-	X	X	-/X	IV	1,000	2,000	1,000	2,000
FR	X	-	X	-	-/X	III	1,500	1,500	1,700	1,000
	X	-	-	X	-/X	II	1,700	1,000	1,700	1,800
BG, RO, GR (vers. 1)	X	-	X	-	-/X	II	1,500	1,600	1,500	1,600
	X	-	-	X	-/X	II	1,600	1,600	1,600	1,600

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	Floor plan	Minimum clearance 1 [mm]	Minimum clearance 2 [mm]	Minimum clearance 3 [mm]	Minimum clearance 4 [mm]
IT, GR (vers. 2)	X	-	X	X	-	I	1,500	1,000	1,500	1,000
	X	-	X	X	X	II	1,500	1,000	1,500	1,500
UK	X	-	X ^{c)}	-	-/X	II	1,800	1,800	1,800	1,000
	X	-	-	X ^{d)}	-/X	V	1,000	1,800	1,000	1,800
AU	-	X ^{e)}	X	X	-/X	II	2,000	2,000	2,000	2,000

a) For TCS 800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC/1800SC

b) For TCS 500SC/630SC/800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC/1800SC

c) TCS 500SC/630SC/800SC/1000SC/1250SC

d) Only TCS 1600SC

e) With concrete base for station building

3.3 Cable Length

You can order prefabricated connection cables from SMA Solar Technology AG in the following lengths:

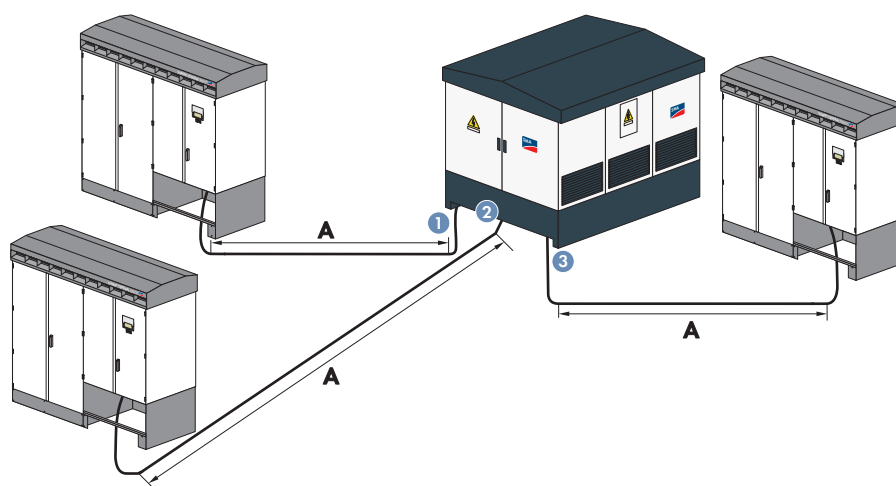
- 5 m
- 7.5 m
- 10 m
- 15 m

Maximum Cable Length between Sunny Central and Transformer Compact Station

The maximum cable length between the termination points of the Sunny Central and the low-voltage side of the Transformer Compact Station is 15 m.

Observe the minimum clearances between the Sunny Central and the Transformer Compact Station when planning the required cable set lengths (see Section 3.2 „Minimum Clearances“ (page 8)).

SMA Solar Technology AG recommends maintaining the maximum distance A between the connection areas of the Sunny Central and the Transformer Compact Station from the table when planning the installation location. For this purpose, observe the positions 1, 2 and 3 of the cable exit in the low-voltage side of the Transformer Compact Station. For the positions and possible cable set lengths for the country-specific versions of the Transformer Compact Station, refer to the table on page 11.



Total cable length	Distance A ^{a)}
5 m	1.5 m
7.5 m	4 m
10 m	6.5 m
15 m	11.5 m

^{a)} Observe the bending radius of the cables when planning the maximum distance. For information on the cable radius, see the cable datasheets (on request).

The following cable set lengths are possible for the country-specific models of the Transformer Compact Station.

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	Position of the cable exit	Total cable length			
							5 m	7.5 m	10 m	15 m
DE (vers. 1)	X	-	X	X	-	2	-	X	X	X
	X	-	X ^{a)}	-	X	2	X	X	X	X
	X	-	-	X	X	1	-	X	X	X
DE (vers. 2)	X	-	X ^{b)}	-	-/X	2	X	X	X	X
	X	-	-	X	-/X	2	-	X	X	X
DE, GR	-	X	X	X	-/X	2	-	X	X	X
CZ	X	-	X	-	-/X	2	X	X	X	X
	X	-	-	X	-/X	2	-	X	X	X
ES	X	-	X	X	-/X	2	-	X	X	X
FR	X	-	X	-	-/X	3	X	X	X	X
	X	-	-	X	-/X	2	-	X	X	X
BG, RO, GR (vers. 1)	X	-	X	-	-/X	2	X	X	X	X
	X	-	-	X	-/X	2	-	X	X	X
IT, GR (vers. 2)	X	-	X	X	-	2	X	X	X	X
	X	-	X	X	X	2	-	X	X	X
UK	X	-	X ^{c)}	-	-/X	1	-	X	X	X
	X	-	-	X ^{d)}	-/X	2	-	X	X	X
AU	-	X ^{e)}	X	X	-/X	2	-	-	X	X

a) For TCS 800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC

b) For TCS 500SC/630SC/800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of 1000SC/1250SC/1600SC

c) TCS 500SC/630SC/800SC/1000SC/1250SC

d) Only TCS 1600SC

e) With concrete base for station building

3.4 Installation Examples

SMA Solar Technology AG recommends installing the Transformer Compact Station and the central inverters as shown in the figure. It is not permitted to install the central inverter with its air outlet aimed directly at the Transformer Compact Station. If you do so, there is a danger that the central inverters will interrupt feed-in operation as a result of the temperature increase.

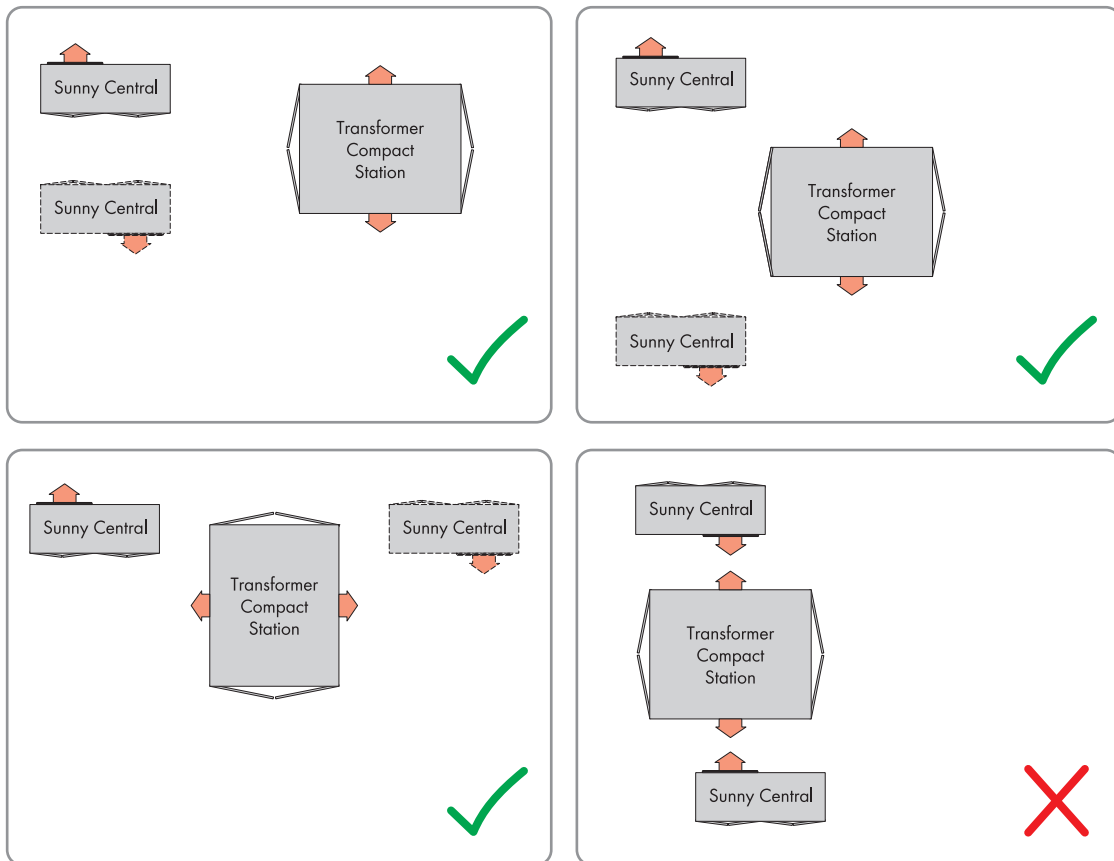



Figure 4: Possible installation layouts for the Transformer Compact Station and the central inverter (examples)

Symbol	Meaning
	Hot exhaust air

3.5 Foundation and Subgrade

The excavation pit and foundation have to be prepared on site in accordance with the foundation drawing. Ensure that the following requirements are met:

- Exterior earthing systems according to the instructions of the network operator or distribution network operator are available.
- A working area of at least 500 mm around the foundation is available.
- The corners of the excavation pit are clearly marked.
- The excavated material is dumped in a location which cannot hinder the truck during transport.
- The subgrade is flat and evenly stripped.
- Relative compaction of the subgrade: 98%
- Soil compression:
 - For concrete models: 150 kN/m²
 - For steel models: 70 kN/m²
 - For steel models with concrete base (TCS for AU): 48 kN/m²
- The station foundation must consist of stone-free, compactable material without sharp edges, e.g. grit with bed of sand drawn off level or horizontal lean-concrete plate.
- When paving the area around the enclosure of the station, a gap of 30 mm must be maintained.

For the country-specific requirements for foundation and subgrade, see the table in Section 3.6 „Foundation Plan“ (page 14).

3.6 Foundation Plan

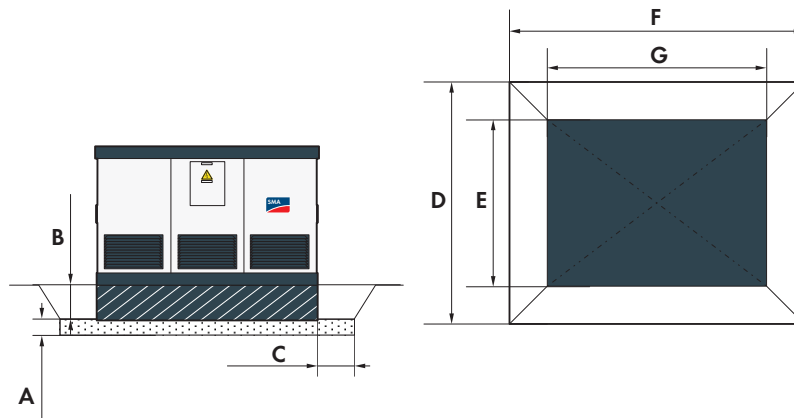


Figure 5: Dimensions of the foundation

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	A: Height of the subgrade [mm]	B: Excavation depth of the foundation [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
DE (vers. 1)	X	-	X	X	-	150	800	500	3,400	2,400	3,600	2,600
	X	-	X ^{a)}	-	X	150	800	500	2,950	1,950	4,100	3,100
	X	-	-	X	X	150	800	500	3,400	2,400	4,100	3,100
DE (vers. 2)	X	-	X ^{b)}	-	-	150	800	500	2,900	1,900	3,320	2,320
	X	-	X ^{b)}	-	X	150	800	500	2,900	1,900	3,820	2,820
	X	-	-	X	-/X	150	800	500	3,380	2,380	3,980	2,980
DE, GR	-	X	X	X	-/X	200	500	500	3,200	2,200	3,900	2,900
CZ	X	-	X	-	-	150	800	500	2,900	1,900	3,320	2,320
	X	-	X	-	X	150	800	500	2,900	1,900	3,820	2,820
	X	-	-	X	-/X	150	800	500	3,380	2,380	3,980	2,980
ES	X	-	X	X	-/X	150	500	500	3,400	2,400	4,590	3,590
FR	X	-	X	-	-/X	100	800	500	2,730	1,730	3,830	2,830
	X	-	-	X	-/X	100	800	500	3,500	2,500	4,050	3,050
BG, RO, GR (vers. 1)	X	-	X	-	-/X	200	800	500	3,100	2,100	3,900	2,900
	X	-	-	X	-/X	200	800	500	3,410	2,410	4,100	3,100

Country, version	Concrete model	Steel model	TCS 500SC/630SC/ 800SC/900SC	TCS 1000SC/1250SC/ 1600SC/1800SC	Medium-voltage switchgear	A: Height of the subgrade [mm]	B: Excavation depth of the foundation [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
IT, GR (vers. 2)	X	-	X	X	-	100	500	500	3,500	2,500	3,380	2,380
	X	-	X	X	X	100	500	500	3,500	2,500	4,280	3,280
UK	X	-	X ^{c)}	-	-/X	100	700	500	3,460	2,460	4,460	3,460
	X	-		X ^{d)}	-/X	100	700	500	3,460	2,460	5,460	4,460
AU	-	X ^{e)}	X	X	-/X	150	500	500	2,835	1,835	4,909	3,909

a) For TCS 800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC

b) For TCS 500SC/630SC/800SC order option with medium-voltage transformer with an amorphous core: delivery in station building of TCS 1000SC/1250SC/1600SC/1800SC

c) TCS 500SC/630SC/800SC/1000SC/1250SC

d) Only TCS 1600SC

e) With concrete base for station building

4 Delivery

4.1 Freight-Forwarding Company

Transportation and unloading is coordinated by a freight-forwarding company. Normally, the freight-forwarding company will arrange a day for delivery and unloading with the site management three weeks prior to the planned delivery date.

4.2 General Specifications

Prior to delivery, remove all obstacles such as fences, power lines and trees (or similar) that could obstruct access by truck.

If the ambient conditions cannot be fulfilled, it may be necessary to use a larger crane. The final size of the crane will be determined on a site visit.

Delivery and transport are included in the scope of services. Additional delivery costs may be incurred on delivery, if the following additional measures are required:

- Traffic-control measures such as road blocks, police escorts, etc.
- A separate crane with a larger range
- An additional traction engine for steep inclines
- Excavator mats, etc.

4.3 Driveway

Delivery takes place by truck equipped with assembly crane. For this, the following conditions must be fulfilled:

- Driveway: paved
- Gradient: max. 4%
- Width: min. 3.5 m
- Ground clearance: 0.25 m
- Driveway is suitable for a truck with the following properties:

Country, version	Transformer Compact Station model	Weight, max. [t]		Gross axle weight rating, max. [t]	Length, max. [m]		Width, max. [m]	Height, max. [m]
		without trailer	with trailer		without trailer	with trailer		
DE, CZ, BG, GR (vers. 1), RO	Concrete	-	-	12	20	30	2.5	5
DE, GR	Steel	17.5	23	-	9	17	2.4	4
ES	Concrete	60	-	-	16	-	3	5
FR	Concrete	40	-	-	16	-	3	5
IT, GR (vers. 2)	Concrete	30	-	-	10	-	3	-
UK	Concrete	-	-	40	-	-	2.5	4.5
AU	Steel	42.5	-	-	32	-	2.4	4.3

4.4 Surface at the Installation Site

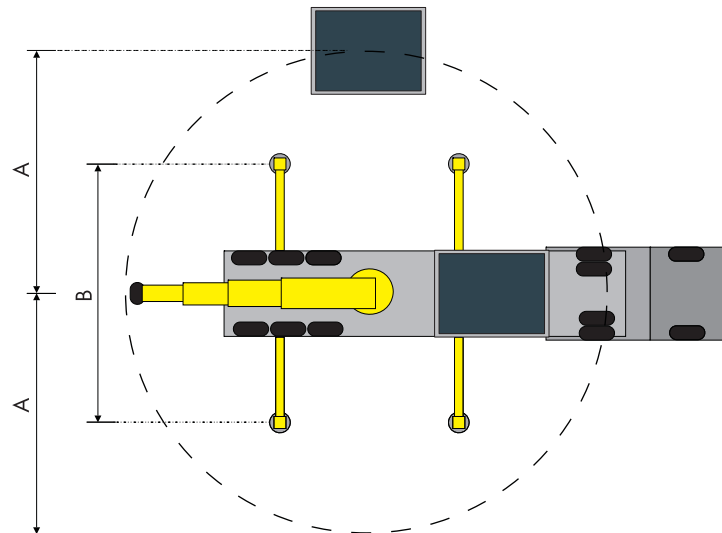
The surface at the installation site must have the following properties:

- Dry
- Compacted
- Level
- Paved

4.5 Unloading

Option 1

The truck with assembly crane places the Transformer Compact Station onto the foundation in the excavation pit.

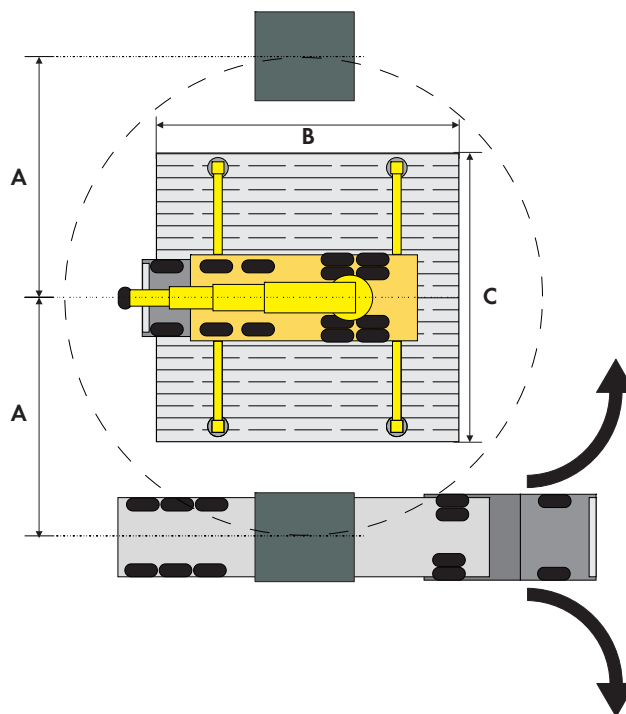


Country, version	Model	Transformer Compact Station	A [mm] ^{a)}	B [mm]
DE (vers. 1, 2), CZ	Concrete	TCS 500SC/630SC/800SC/900SC/1000SC/1250SC/1600SC/1800SC	6,000	7,000
DE, GR	Steel	TCS 500SC/630SC/800SC/900SC	7,350	max. 6,500
		TCS 1000SC/1250SC/1600SC/1800SC	4,600	max. 6,500
IT, GR (vers. 2)	Concrete	TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC	5,000	5,500
UK	Concrete	TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC	7,000	7,500
AU	Steel	TCS 500SC/630SC/800SC/1000SC/1250SC/1600SC	12,000	18,000

^{a)} Maximum radius

Option 2

The assembly crane erected next to the truck places the Transformer Compact Station onto the foundation in the excavation pit.



Country, version	Model	Transformer Compact Station	A [mm] ^{a)}	B [mm]	C [mm]
DE (vers. 1)	Concrete	TCS 500SC/630SC/800SC/ 900SC/1000SC/1250SC/ 1600SC/1800SC	12,000	10,000	7,000
DE (vers. 2), CZ	Concrete	TCS 500SC/630SC/800SC/ 900SC/1000SC/1250SC/ 1600SC/1800SC	14,000	10,000	7,000
ES	Concrete	TCS 500SC/630SC/800SC/ 1000SC/1250SC/1600SC	7,000	8,000	7,000
FR	Concrete	TCS 500SC/630SC/800SC/ 1000SC/1250SC/1600SC	8,000	10,500	9,500
BG, RO, GR (vers. 1)	Concrete	TCS 500SC/630SC/800SC/ 1000SC/1250SC/1600SC	7,000	8,000	7,000
UK	Concrete	TCS 500SC/630SC/800SC/ 1000SC/1250SC/1600SC	7,000	5,000	8,500

^{a)} Maximum radius

5 Colour

Roof	Signal grey	RAL 7004
Base	Mouse grey	RAL 7005
Exterior walls	Traffic white	RAL 9016
Doors/ventilation grids	Signal grey/Untreated aluminium	RAL 7004

The colours of the country-specific models of the Transformer Compact Station may differ from those listed.

6 Information on Installation

Conductor Cross-Sections

The AC connection has to be implemented in accordance with the documentation for the medium-voltage switchgear and the transformer. Observe the conductor cross-sections specified in the documentation for the AC connection.

Earthing the Transformer Compact Station

The Transformer Compact Station and the central inverters must be included in the equipotential bonding and be on the same earth potential. Exterior earthing systems must be executed on site according to the specifications of the network operator or distribution network operator.

Cable Connection Between Sunny Central and Transformer Compact Station

SMA Solar Technology AG recommends the following cable types:

Europe:

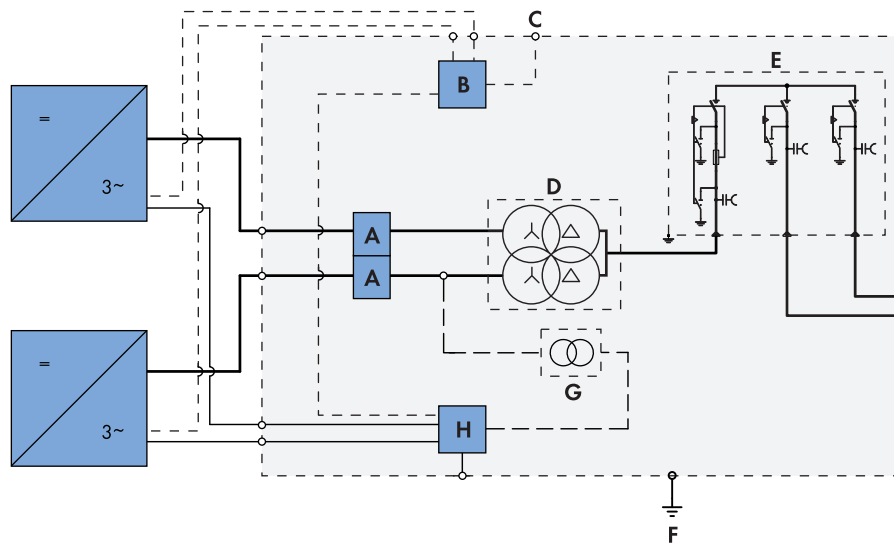
- ÖLFLEX® TRAF0 3 x 3 x 1 x 240 mm²

Australia:

- OLEX 4 x 3 x 1 x 240 mm²

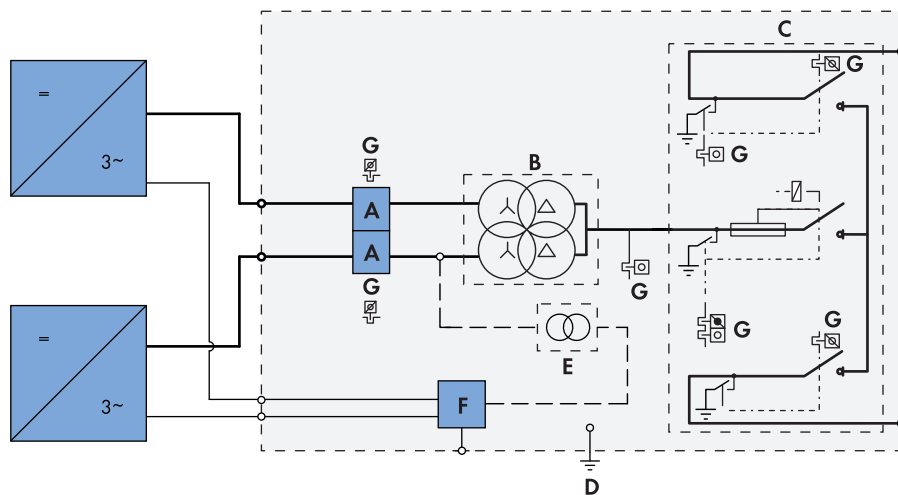
For further information on this subject, see the Technical Information "Cable set - requirements and routing of cables between SUNNY CENTRAL CP and TRANSFORMER COMPACT STATION" at www.SMA-Solar.com.

Block Circuit Diagram of the Transformer Compact Station for All Countries Excluding France Using the Example of the Transformer Compact Station 1600SC with Medium-Voltage Switchgear



A	Low-voltage switchgear	E	Medium-voltage switchgear
B	Communication distributor, optional	F	External earthing
C	Communication interface	G	Transformer for auxiliary power supply, optional
D	Transformer	H	Station sub-distribution

Block Circuit Diagram of the Transformer Compact Station for France Using the Example of the Transformer Compact Station 1600SC with Medium-Voltage Switchgear



A	Low-voltage switchgear	E	Transformer for auxiliary power supply, optional
B	Transformer	F	Station sub-distribution
C	Medium-voltage switchgear	G	Interlocking
D	External earthing		