

T53/T23 installation one-pager

This one-pager briefly indicates the main relevant elements for the installation of the Terra 53 and Terra 23 C/CG/CJ/CT/CJG/CJT Charging Station. It can be used as a basis to determine the requirements for a site.

Electrical installation

General

- The electrical installation should be designed and constructed according to local laws, safety and electrical regulations.
- Over voltage / surge protection is built into the charger.
- The components used in the T53/T23 are suited for a short circuit current of 10kA maximum.

Required

- Minimal required external fuse for full power output :

Charger Type	Fuse size
T53 CG/CT/CJG/CJT	125 A
T53 C/CJ	100 A
T23 CG/CT/CJG/CJT	63 A
T23 C/CJ	32 A

- Maximum external fuse size is 160 A due to internal cable dimensions.
- Power Limiting settings are available in case of lower external fuse configuration.
- Connection cable 400V, 50Hz, 3P+N+PE.
- In case of a T23 it is advised to choose the connection cable dimensions on the T53 power usage (100A/125A) to make the site future upgradable.
- In case local grid requirements prescribe an external/upstream RCD: Please consult Chapter 2.3 of the T53 Installation Guide v1.0, of May 2014.
- Max. surface conducting wires 70 mm². Cable enters the charger vertically at the height of the recess shown below.
- Extra cable length for installation on the charger side (+/- 1 m).
- Wires of the cable inside of the charger connected with M8 cable lugs to copper conductors.
- PE connected to the main PE rail.



Figure 1
T53 CJG Fast Charger

Recommended

- External switch/breaker on distribution board exclusive per charger.

Physical installation

Placement

- Charger should be hoisted onto its foundation. For hoisting, M10 eyebolts (4x, not included) can be screwed into the top of the charger.
- The dimensions to mount the T53/T23 on its foundation are shown in the figure 2.

Dimensions

- Weight approximately 350 kg.
- Cabinet size 525 x 760 x 1900 mm (WxDxH)

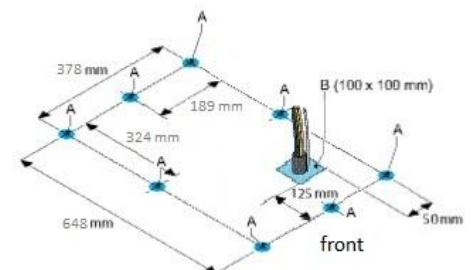


Figure 2
Mounting dimensions

Document name	T53/T23 installation one-pager		Related products	T53 C/CJ/CG/CT/CJG/CJT
Release date	13-11-2015			T23 C/CJ/CG/CT/CJG/CJT
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