


Translations: Remorque génératrice solaire - Système électrique/90/en

- The maximum current that will cross the cable on the studied segment (I , in Amps)
- The voltage of on the studied segment (U , in Volts)
- The length of the cable on the studied section (L , in meters)
- The material and also its resistivity (ρ , en Ohm.mm²/m). For the copper, we generally take $\rho=0,023 \Omega \cdot \text{mm}^2/\text{m}$
- Maximum allowable voltage drop ϵ . we often choose 1% or $\epsilon=0,01$

 The solar panels must be connected with a cable specific to photovoltaic installations (resistant to heat and UV rays)

The installation is therefore decided into in 3 segments: