parameter	value	description
$V(t)$	$V_0 \cdot \sin(2\pi f t + \phi)$	voltage in terms of time
$I(t)$	$I_0 \cdot \sin(2\pi f t + \phi)$	current in terms of time
V_0	$300\,\mathrm{V}$	peak voltage
V_{rms}	$\sqrt{\frac{1}{T}\int_0^T [V(t)]^2\,dt}$	rms value of Voltage
I_{rms}	$10\,\mathrm{A}$	rms value of current
I_0	$\sqrt{2} \times I_{\mathrm{rms}}$	peak current
f	$50\,\mathrm{Hz}$	frequence of the sinosoidal wave.
T	$0.02\,\mathrm{s}$	time period of sinosoidal wave.

Table 1: Input Parameter Table