

Dwelling Garage Load Calculator

Compare entered garage load with panel or service capacity and show the EV allowance share of the entered total.

Generated October 10, 2026

<https://www.elecatrix.com/residential-load-service/dwelling-garage-load-calculator/>

Inputs

Input	Value	Unit
Garage receptacle load	1.8	kW
Garage lighting load	0.6	kW
Door opener load	0.8	kW
EV allowance	7.2	kW
Workshop load	2.4	kW
Entered panel/service capacity	19.2	kW

Results

Result	Value	Unit
Non-EV garage load	5.6	kW
Connected garage load	12.8	kW
Entered capacity margin	6.4	kW
EV allowance share	56.25	%

Calculation details

Detail	Value	Unit
Calculation basis	Garage screen sums entered load groups and compares with entered capacity.	
Review boundary	Planning worksheet only; no service size, EV circuit, feeder, detached-structure, or code-compliance approval is made.	

Formulas

non-EV garage load = receptacle + lighting + door opener + workshop loads

connected garage load = non-EV garage load + EV allowance

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$\text{capacity margin} = \text{entered capacity} - \text{connected garage load}$

$\text{EV share percent} = \text{EV allowance} / \text{connected garage load} \times 100$

Warnings and limitations

This garage load screen does not determine final service size, approve EV circuit sharing, size a feeder, select OCPD, or replace utility/AHJ review.