

Dwelling Small Appliance Load Calculator

Builds a dwelling small-appliance load line from circuit count, entered VA allowance, demand factor, and any existing appliance rows needing duplicate-entry review.

Generated October 10, 2026

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

Inputs

Input	Value	Unit
Small-appliance circuit count	2	circuits
Entered allowance per circuit	1500	VA
Entered demand factor	1	x
Existing appliance rows to review	N/A	VA

Results

Result	Value	Unit
Connected allowance	3000	VA
Assessed allowance	3000	VA

Status

Status	Value	Unit
Overlap review	No entered overlap flag	

Calculation details

Detail	Value	Unit
Calculation basis	Small-appliance allowance equals entered branch-circuit count multiplied by the entered VA allowance and demand factor.	
Planning boundary	Preliminary dwelling worksheet line item only; the entered allowance and demand treatment require adopted-edition and AHJ review.	

Formulas

$L_{connected} = N_{circuits} \times V_{allowance}$

$L_{assessed} = L_{connected} \times F_{demand}$

Warnings and limitations

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Small-appliance circuit allowances and demand treatment depend on the adopted NEC/CEC edition, AHJ worksheet, jurisdiction, and calculation method. Do not add the same loads again as appliance-specific rows without review.