

Residential EV Diversity Load Calculator

Estimate connected and diversified residential EVSE load, then compare the planning load with an entered capacity allowance.

Generated October 10, 2026

<https://www.elecatrrix.com/residential-load-service/residential-ev-diversity-load-calculator/>

Inputs

Input	Value	Unit
EVSE count	3	chargers
EVSE load per unit	7.2	kW
Entered diversity factor	60	%
Entered capacity	15	kW

Results

Result	Value	Unit
Connected EV load	21.6	kW
Diversified EV load	12.96	kW
Capacity margin	2.04	kW

Status

Status	Value	Unit
Capacity note	Entered capacity covers the EV diversity estimate.	

Calculation details

Detail	Value	Unit
Calculation basis	EV diversity load is calculated from entered EVSE count, unit kW, diversity factor, and capacity allowance.	
Review boundary	Entered diversity assumptions only; no NEC load calculation, EVSE approval, service sizing, utility approval, or load-management compliance result is made.	

Formulas

Connected EV load=EVSE count x EVSE kW

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Diversified EV load=Connected EV load x Diversity factor/100

Capacity margin=Entered capacity-Diversified EV load

Warnings and limitations

Entered diversity assumptions only; EV load management, NEC load calculation, EVSE selection, service sizing, utility approval, and code compliance require separate review.