

Exit Sign Load Calculator

Calculate total exit-sign load and optional emergency-duration energy from sign wattage, count, and duration.

Generated October 10, 2026

<https://www.elecatrix.com/lighting/exit-sign-load-calculator/>

Inputs

Input	Value	Unit
Watts per sign	5	W
Sign count	12	signs
Optional emergency duration	1.5	hours

Results

Result	Value	Unit
Watts per sign used	5	W
Sign count used	12	signs
Total sign load	60	W
Emergency duration used	1.5	hours
Emergency energy estimate	90	Wh

Calculation details

Detail	Value	Unit
Calculation basis	Total exit-sign load equals watts per sign multiplied by sign count. Optional emergency energy equals total load multiplied by the entered duration.	
Screening boundary	Exit-sign load arithmetic only; no sign listing, visibility, placement, emergency-life-safety, code-compliance, circuit, or battery approval result is made.	

Formulas

total sign load W = watts per sign x sign count

emergency energy Wh = total sign load W x emergency duration hours

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Warnings and limitations

This exit-sign result uses entered sign wattage and count. It does not approve emergency-life-safety performance, sign listing, visibility, placement, circuit sizing, battery capacity, or code compliance.