

Demand Factor Calculator

Calculate demand load from entered connected load, demand factor, and fixed allowance; the adopted demand method remains external.

Generated October 10, 2026

<https://www.elecatrix.com/commercial-industrial-loads/demand-factor-calculator/>

Inputs

Input	Value	Unit
Connected load	50000	VA
Entered demand factor	55	%
Fixed allowance	2500	VA

Results

Result	Value	Unit
Entered-factor demand	30000	VA
Connected load	50000	VA
Diversity allowance	20000	VA
Effective demand factor	60	%

Calculation details

Detail	Value	Unit
Calculation basis	The mode applies the entered demand factor to entered connected load and adds an entered fixed allowance.	
Mode boundary	Entered-factor arithmetic only; no demand table, feeder calculation, service calculation, or final load decision is made.	

Formulas

factored load = connected load x entered demand factor / 100

entered-factor demand = factored load + fixed allowance

diversity allowance = connected load - entered-factor demand

Warnings and limitations

Mode arithmetic only; verify the adopted demand method, load categories, source factors, and qualified review separately.