

Transformer Bank Capacity Calculator

Calculate combined transformer-bank nameplate capacity, usable capacity, and reserved capacity for identical units under an entered utilization assumption.

Generated October 10, 2026

<https://www.elecatrrix.com/power-quality-transformers/transformer-bank-capacity-calculator/>

Inputs

Input	Value	Unit
Transformer unit count	3	units
Unit transformer rating	75	kVA
Utilization assumption	80	%

Results

Result	Value	Unit
Total nameplate capacity	225	kVA
Utilization ratio	0.8	x
Simple usable capacity	180	kVA
Reserved capacity in assumption	45	kVA

Calculation details

Detail	Value	Unit
Calculation basis	Total nameplate capacity equals unit count multiplied by unit kVA. Usable capacity applies the explicit utilization percentage.	
Boundary	Bank arithmetic only. No parallel-transformer compatibility, load sharing, impedance matching, protection, fault current, manufacturer approval, or code-compliance result is made.	

Formulas

Total nameplate capacity = Unit count x Unit kVA
Utilization ratio = (Utilization percent/100)
Usable capacity = Total nameplate capacity x Utilization ratio
Reserved capacity = Total nameplate capacity - Usable capacity

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Warnings and limitations

This is a simple bank-capacity arithmetic screen. It does not verify parallel-transformer compatibility, load sharing, impedance matching, cooling, protection, fault current, manufacturer approval, or code compliance.