

1 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Where are service conductor sizing and service disconnect rules?

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Minimum size of a one-family dwelling service disconnect?

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Maximum number of service disconnects in one enclosure group?

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What is the standard method for a dwelling general lighting load?

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Dwelling lighting demand tiers?

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Subtotal of 14,000 VA. Lighting demand?

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100 A, 3-wire.

NEC 2026 230.79

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Article 230, with Article 250 for grounding and bonding.

Article 230

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3 VA per square foot of floor area, with the demand tiers applied to the subtotal.

NEC 2026 Article 120

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Six disconnects per service location, grouped together.

NEC 2026 230.71

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$3,000 + (11,000 \times 0.35) = 6,850 \text{ VA.}$

NEC 2026 Article 120

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First 3,000 VA at 100%, 3,001 to 120,000 VA at 35%, over 120,000 VA at 25%.

NEC 2026 Article 120

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Small-appliance and laundry loads in a dwelling?

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Fastened-in-place appliance demand in a dwelling?

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Electric dryer load in a dwelling?

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Which table sizes the grounding electrode conductor?

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Ground rod GEC need not exceed what size?

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Concrete-encased electrode GEC need not exceed what size?

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75% of the nameplate total when four or more are on the service or feeder, not counting ranges, dryers, heating or air conditioning.

NEC 2026 Article 120

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1,500 VA for each of two small-appliance circuits and 1,500 VA for the laundry circuit.

NEC 2026 Article 120

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Table 250.66, from the size of the largest ungrounded service conductor or equivalent area.

NEC 2026 250.66

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5,000 VA or the nameplate rating, whichever is larger, then demand factors as the section allows.

NEC 2026 Article 120

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4 AWG copper when it is the sole connection to that electrode.

NEC 2026 250.66

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6 AWG copper when it is the sole connection to rod electrodes.

NEC 2026 250.66(A)

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