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

Load calculation article in the 2026 NEC?

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2 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Dwelling small-appliance and laundry loads in the standard method?

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3 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Four or more fastened-in-place dwelling appliances?

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4 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Dwelling service conductors at 120/240 V single-phase carrying the whole load?

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5 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Minimum service disconnect rating for a one-family dwelling?

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Clearances for overhead service conductors?

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1,500 VA for each small-appliance circuit (at least two) and 1,500 VA for the laundry circuit.

NEC 2026 Article 120, Part III

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Article 120 (it was Article 220 in earlier editions; check your 2026 index). The standard method for feeders and services is Part III.

NEC 2026 Article 120

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Ampacity at least 83% of the service rating. Example: 200 A x 0.83 = 166 A.

NEC 2026 310.12

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Take 75% of their combined nameplate load (ranges, dryers, space heating and AC are figured separately).

NEC 2026 Article 120, Part III (fastened-in-place appliances)

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230.24: above roofs, and vertical clearance above grade by what is underneath (walkways, residential driveways, streets).

NEC 2026 230.24

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100 A, 3-wire.

NEC 2026 230.79(C)

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Grounding electrode conductor size?

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8 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

GEC that connects only to ground rods?

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9 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

GEC that connects only to a concrete-encased electrode?

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10 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Main bonding jumper and supply-side bonding jumper size?

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When does a single ground rod need a supplemental electrode?

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When is a metal underground water pipe a grounding electrode?

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Not required to be larger than 6 AWG copper.

NEC 2026 250.66(A)

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Table 250.66, read from the largest ungrounded service-entrance conductor (or the equivalent area of parallel sets).

NEC 2026 250.66; Table 250.66

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Table 250.102(C)(1), read from the size of the service conductors.

NEC 2026 250.28; Table 250.102(C)(1)

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9 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Not required to be larger than 4 AWG copper.

NEC 2026 250.66(B)

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

When at least 10 ft is in direct contact with the earth. It always needs a supplemental electrode.

NEC 2026 250.52(A)(1); 250.53(D)

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11 / 12 · Electrical Services, Service Equipment, and Separately Derived Systems

Always, unless that one rod measures 25 ohms or less to earth. Two rods are at least 6 ft apart.

NEC 2026 250.53(A)

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