



Generator AMP Chart

Full-Load Amps (FLA) Output by Generator Size & Voltage

Each figure below is the approximate **full-load amps a diesel generator of that size delivers** at the given voltage and phase. Find your generator size, read across to your voltage, and keep your total load comfortably below that amperage. Values are calculated at a 0.8 power factor for planning — call us to confirm exact sizing for your job.

Generator Size	240V Single-Phase	208V Three-Phase	240V Three-Phase	480V Three-Phase
20 kW	104	69	60	30
30 kW	156	104	90	45
45 kW	234	156	135	68
56 kW	292	194	168	84
60 kW	312	208	180	90
100 kW	521	347	301	150
125 kW	—	434	376	188
150 kW	—	520	451	226
175 kW	—	607	526	263
200 kW	—	694	601	301
230 kW	—	798	692	346
250 kW	—	867	752	376
300 kW	—	1041	902	451
320 kW	—	1110	962	481

Figures = amps (A) output at full load • "—" = single-phase not typical at that size • FLA shown at ~0.8 power factor. Actual amperage varies with load and power factor.

How to use this chart

Add up the running amps of everything you need to power, then account for the higher startup (surge) amps of the largest motor. Match that total to a generator size at your service voltage, making sure the generator's full-load amps exceed your peak demand. When a load is close to a generator's rated amps, size up to the next unit for surge headroom.

Example: A job needs 400 running amps at 208V three-phase. A 125 kW generator delivers ~434 A at 208V 3-phase — enough, but with little margin. If large motors surge on startup, stepping up to a 150 kW (~520 A) gives safer headroom.

Allied Rental Company LLC

Diesel generators, dehumidifiers, air filtration & climate-control equipment rentals across the San Francisco Bay Area. Since 2002.

(415) 644-5792

info@alliedrentalco.com

www.alliedrentalco.com

15 Copeland St, Petaluma, CA 94952

Reserve equipment online: allied-rental.pointofrentalcloud.com/portal