

Technical Note **Using a Generator with PROsine 3.0**

PROsine 3.0
Inverter/Charger
512-0010-01-01 Rev 1

What size generator would I need to charge my batteries at 120 amps using the PROsine 3.0?

Calculate:

(120 amps x 14.8 volts) = 2243 VA is the power required by the PROsine during bulk charge of 120 A.

**(0.80 efficiency x 0.99
power factor)**

In order to enable the full 120-amp bulk charge rate, we recommend you use at least a 2500-watt continuous duty generator, or connect to a min. 25 A AC source (25–30 A breaker setting). A slightly smaller generator may operate since the PROsine 3.0 will accept as low as 90 VAC input, however the generator may suffer damage due to overheating/overloading.

You may use a smaller generator effectively by reducing the AC breaker setting to match the generator max continuous rated AC amps. If the lower setting is less than 25 A you will reduce the bulk charge rate which results in a longer charge time (from deeply discharged batteries).

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