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:

$$\frac{\textbf{(120 amps x 14.8 volts)}}{\textbf{(0.80 efficiency x 0.99 power factor)}} = 2243 \text{ VA is the power required by the PROsine during bulk charge of 120 A.}$$

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).

Technical Note: *Using a PROsine 3.0 With a Generator* © July 2001 Xantrex International

Part number: 512-0010-01-01 Rev 1

Contact information:

Phone:	1-800-670-0707 (toll-free in North America)
Phone:	1-604-422-2777 (direct)
Fax:	1-604-420-2145 (direct)
Email:	CustomerService@xantrex.com
Web:	www.xantrex.com