

Technical Note Charging Requirements

PROsine 2.5

512-0011-01-01 Rev 1

Charging Requirements

What size generator would I need to charge my batteries at 100 amps using the PROsine 2.5?

Calculate:

(100 amps x 14.8 volts) = 1868 VA is the power required by the PROsine during bulk charge of 100 amps.

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

In order to enable the full 100-amp bulk charge rate, we recommend you use at least a 2000-watt continuous duty generator or connect to a minimum 25A AC source (25 to 30 A breaker setting). A slightly smaller generator may operate since the PROsine 2.5 will accept as low as 90 VAC input; however, the generator may suffer damage due to overheating and 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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Part number: 512-0011-01-01 Rev 1

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