

## Technical Note      **Selecting an Inverter/Charger**

**Prosine 2.5/3.0****512-0035-01-01 Rev 1**

### Overview

Choosing a Xantrex Prosine™ inverter/ charger means you'll have an all-in-one, mobile power solution that's light and easy to install.

As an inverter, Prosine products provide true sine wave power. It's clean, reliable electric power that is the same (or better than) grid power from your local utility company. Your equipment will run the way it's designed to, every time, at every speed.

As a charger, Prosine's smart, three-stage charging ensures your AGM, lead-acid or gel batteries are topped quickly and efficiently, with minimal wear and tear.

As an inverter/charger combined, Prosine can function as a reliable backup power system. If AC (shore power) is available, the system uses it to run house loads and charge batteries. If AC power is lost, the system quickly transfers to inverter mode, using battery power to run the connected house loads.

Xantrex has two true sine-wave inverter/charger products. Choosing the right Prosine depends on your overall power needs. Add up the power (in watts) of all the loads you would like to operate at the same time from your electrical system.

<b>TOTAL LOAD</b>	<b>PRODUCT</b>
Less than 2500 watts	Prosine 2.5
Greater than 2500 watts	Prosine 3.0

### Prosine 2.5

As an inverter, this product delivers up to 2500 watts continuously and can surge to 4000 watts. As a three-stage charger, it draws a consistent 100-amp current to charge the batteries. Prosine 2.5 comes with an LED Remote Control/Display Panel that provides complete system information in both inverter and charger mode.

### Prosine 3.0

As an inverter, it delivers up to 3000 watts continuously. As a three-stage charger, it draws a consistent 120-amp current to charge the batteries. Prosine 3.0 comes stock with an Advanced Control System Panel that functions using a menu-driven LCD display. The panel offers operating control and its display provides detailed system information. The Advanced Control System Display is available as an option for the Prosine 2.5.

## How long will my battery run?

Get the most out of your mobile power system by pairing your inverter with the right size battery. The table below shows the running times of standard sized batteries under typical loads.

TYPICAL LOAD	BATTERY TYPE						
	BCI GROUP SIZE RESERVE CAPACITY AMP HOURS		22NF 90 min 50	24 140 min 75	27 180 min 100	8D 400 min 200	Dual 8Ds 900 min 400
	POWER DRAW		OPERATING HOURS				
19" Color TV	100 W	10 amp	4.0	6.0	10.0	20.0	40
Computer system	300 W	30 amp	1.3	2.2	3.0	6.0	12
Power drill	400 W	40 amp	1.0	1.5	2.0	4.5	10
Small microwave	625 W	60 amp	—	—	—	1.5	4
Toaster	1000 W	100 amp	—	—	—	1.0	3
Full-size microwave oven	1500 W	150 amp	—	—	—	0.5	2
Hair dryer/washing machine	2500 W	250 amp	—	—	—	0.2	0.8

## For more information

Visit our Web site at [www.xantrex.com](http://www.xantrex.com).

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