Advanced Information

Solar Boost 3024i & IPN Network

Integrated PowerNet™ Network

The *Integrated PowerNet* or *IPN* network is a high speed digital network which connects multiple charge control or power control devices together. Key features of the IPN network include:

- Multiple charge control or power control devices on the IPN network operate in a coordinated manner as a single machine, communicate to a common monitor/control display and share common charge parameters and battery temperature sensor.
- Up to 8 power control devices plus a display can reside on a single IPN network.
- Manages multiple power sources which may be available at different times; i.e., PV, wind, AC, etc.
- Optional display device, *IPN-Remote* or *IPN-ProRemote*, is not required for the IPN network or network compatible devices to function.
- No hub or other special communication hardware is required.

Solar Boost™ 3024i

The new Solar Boost 3024i is a mid-sized 12/24V 30A MPPT type PV module charge controller. The SB3024i is the first in a series of products based on Blue Sky Energy's new *Integrated PowerNet*™ (IPN™) network. Product highlights include:

- 12V/24V 30A output rating.
- Fully automatic Maximum Power Point Tracking (MPPT) delivers up to 30% more charge current than conventional charge controllers.
- Can charge 12V battery from 24V PV modules.
- IPN network interface; allows multiple charge controllers to operate as a single machine, communicate to a common monitor/control display and share common charge parameters and battery temperature sensor.
- Simple LED/switch interface provides basic system setup. No analog adjustments. Digital setpoints retained if power is interrupted.
- Multi-stage charge control, plus automatic or manual equalization.
- Auxiliary output; either 2A aux. battery charge, or 20A load control based on LVD or net battery amp-hours when combined with the IPN-ProRemote.

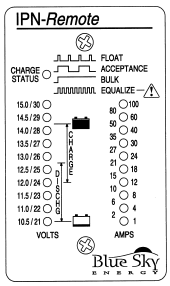
IPN-ProRemote

IPN-ProRemote is a full featured remote display with complete system setup and control capability.

- 2-Line by 16-Character backlit LCD display shows status and performs advanced setup using easy to understand plain English language text.
- Provides enhanced setup of IPN connected devices.
- Provides complete charge control, battery and DC system status monitoring. Status displays include: battery voltage, net battery current, input/output charge current, net battery amp-hours, output charge amp-hours, remaining battery capacity in percent, auxiliary battery voltage, LVD status, individual IPN device status and more.
- Highly accurate remaining battery capacity display compensates for battery temperature and learns from charge/discharge cycles to continuously improve accuracy.
- Eliminates the need for a separate battery monitoring device.
- Optional RS-232 interface allows monitoring or control from remote computer. (Q2 2004)

IPN-Remote

Basic remote display without setup capability.



- Shows charge status LED, and a bargraph of battery voltage & output charge current.
- Very low cost.
- Available Q2 2004.

Blue Sky Energy, Inc. • 2598 Fortune Way, Suite K • Vista, CA 92083
Phone 760-597-1642 • Fax 760-597-1731 • www.blueskyenergyinc.com

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