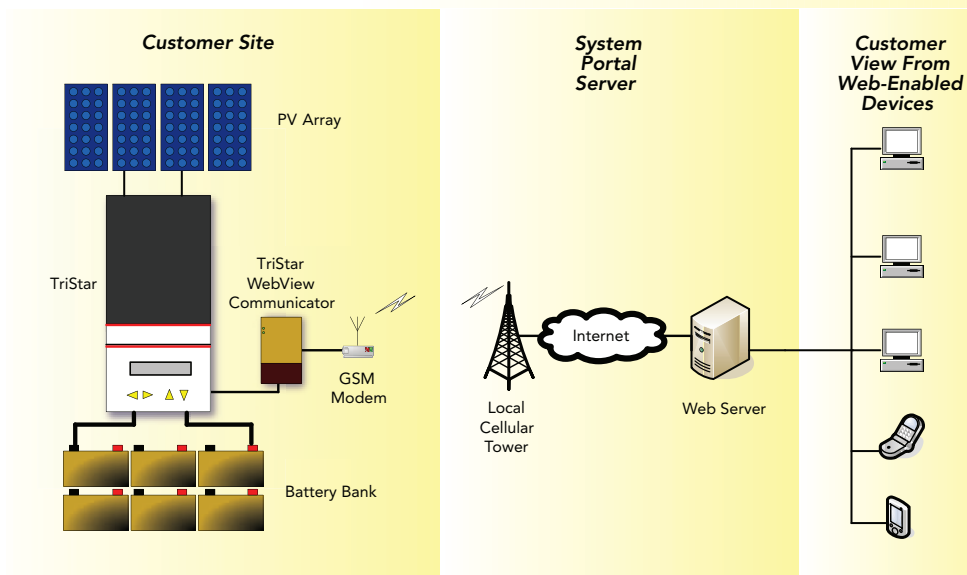# MORNINGSTAR corporation

TRISTAR WEB VIEW™

OFF-GRID REMOTE MONITORING OVER THE INTERNET

Morningstar's **TriStar Web View** remote monitoring is an advanced hardware and software package that provides live data from an off-grid PV system to a website over the internet. Designed from proven on-grid PV monitoring technology developed by Fat Spaniel Technologies, this product uses the TriStar's communications capability to manage remote PV systems from any web browser… *anytime and anywhere.*

The TriStar Web View communicates PV system status from the TriStar controller over a broadband or wireless internet connection to a website for 24/7 access. The website displays real-time and historic data as well as advance alerts of any potential system problems. All of the hardware and software is included to enable a simple "plug and play" installation. By avoiding expensive site visits, the TriStar Web View will reduce the life cycle costs of off-grid PV systems.

Customer Site — PV Array, TriStar, TriStar WebView Communicator, GSM Modem, Battery Bank. **System Portal Server** — Local Cellular Tower, Internet, Web Server. **Customer View From Web-Enabled Devices**

Key Features and Benefits:

▪ Avoids Costly Site Visits
Remote monitoring is almost as good as being at the site. Actual system status is displayed continuously over the internet.

▪ Increases Power System Reliability
Advance alerts and historical trends help predict future problems so that corrective action may be taken before a system failure. Long-term reliability is thus improved.

▪ Saves Installation Time and Cost
The hardware provided is preprogrammed and ready for installation. No software downloads or other set up are required.

▪ Fully Redundant and Secure
Data is stored in an on-site buffer if there is a communications interruption and the server has off-site backup systems for high reliability and uptime. Uses a password protected login and a private IP address for complete security.
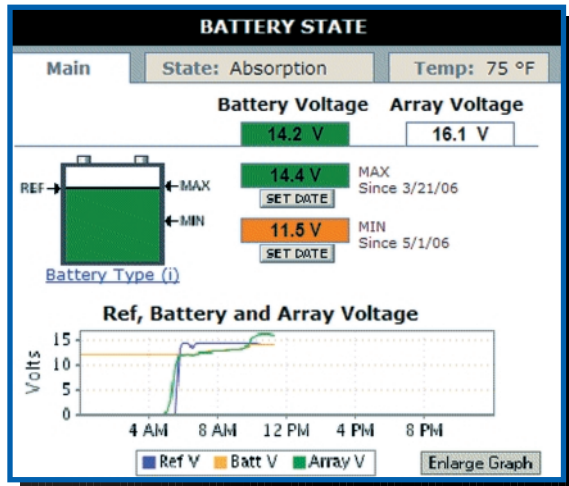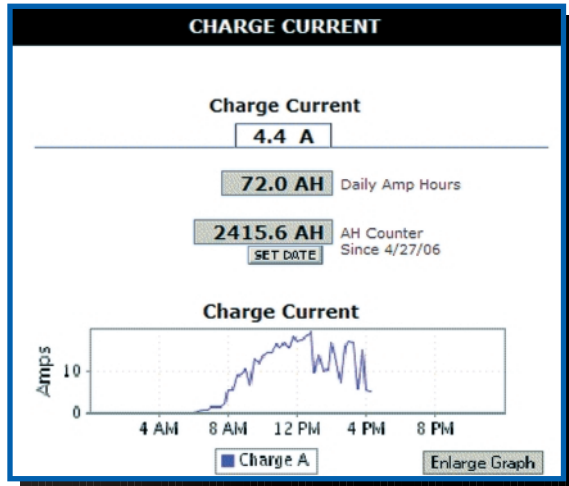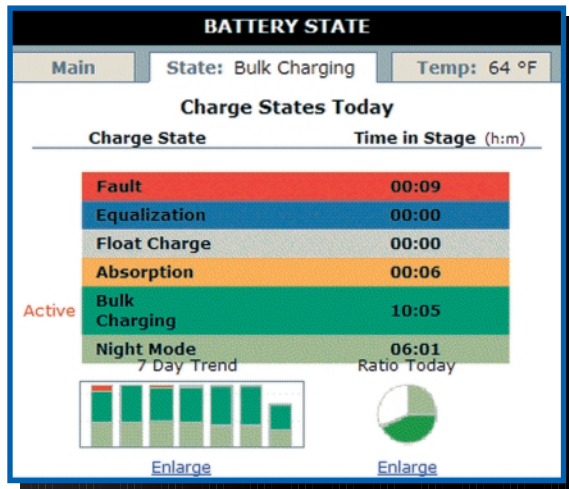
▪ Flexible Internet Connections
Supports both hard-wired internet connections as well as cellular data services through an optional GSM modem.

▪ Extensive Website Displays
Shows numerous system data numerically and as graphic displays. Battery level and charging, PV output, temperature and diagnostics on both a present and cumulative basis are provided.

DESCRIPTION

FST Communications Gateway
• Translates data from the TriStar for transmission over the Internet

RS-232 Cable
• For connecting the FST Comm Gateway to the TriStar

DC Power Adapter
• Required for 12V and 48V systems (not needed for 24V)

Router or GSM Modem
• Router supplied by others if Internet access has been previously enabled at the site. Otherwise, we will provide a preprogrammed GSM modem.

5 Year Site license
• Web hosting and support is included.

Note: Compatible with any TriStar controller

For further information, contact Morningstar or Fat Spaniel Technologies directly at +1-408-279-5262 or morningstar-sales@fatspaniel.com

AUTHORIZED MORNINGSTAR DISTRIBUTOR:

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Fat Spaniel
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