



Fat Spaniel™
TECHNOLOGIES

Benefits

- **Manage solar electric systems more efficiently to increase energy output and reduce operations and maintenance**
- **Manage multiple vendors equipment, such as inverters from SMA, Xantrex and others, through a single management system**
- **Around the clock remote monitoring of Solar Electric Systems**
- **Track production, usage, and environmental statistics with real-time and historical data – via online reports and Web views**
- **Increase customer satisfaction with improved service and greater uptime**
- **Educate customers through Web views and use these views as effective sales tools to sell more systems to new customers**
- **Access system data anytime, from any Web browser**

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Solar Electric Systems: Monitoring and Reporting Services

Overview

Fat Spaniel Technologies offers monitoring and reporting services for solar electric systems. Engineering, Procurement and Construction firms (EPCs), banks and private investors, Operations and Maintenance (O&M) Providers and manufacturers look to us for information services to maximize system energy output and deliver the highest possible return on investment.

Pricing

Our service pricing is based on system size, duration of service subscription, type of monitoring (inverter-direct or independent energy meter with a separate meter), and optional add-ons. Contact one of our sales representative at sales@fatspaniel.com or call +1 408 279 5262 to get a price quote.

Base Systems

Independent Energy Meter Base System

This Base System includes the basic hardware for independent energy meter monitoring that meets accuracy provisions of IEC 60687.

Hardware includes:

- Gateway for datalogging and communications
- Outdoor-rated IP 65 enclosure
- Independent energy meter

Available in the following service configurations:

- Single-phase, 120 or 240 VAC, 5A
- Split phase, 120 / 240 VAC, 5A
- 3-Phase, 208 VAC, 5A
- 3-Phase, 480 VAC, 5A
- Single-phase, 120 or 240 VAC, mA
- Split phase, 120 / 240 VAC, mA
- 3-Phase, 208 VAC, mA
- 3-Phase, 480 VAC, mA

Base System Hardware Specifications

Enclosure

- Dimensions
15.24cm x 15.24cm x 10.16cm or
30.48cm x 25.4cm x 10.16cm or
30.48cm x 25.4cm x 15.24cm
- Material
Polycarbonate
- Rating
IP 65

Communication Gateway

- Operating Temperature: -10° to 60°C
(14° to 140°F)
- Relative Humidity: 5 to 95%
- Storage Temperature: -20° to 85°C
(-4° to 185°F)
- Power Consumption: 340mA @ 12Vdc

Independent Energy Meter

- AC Voltage Error: +/- 0.5%
- AC Current Accuracy: +/- 0.5%
- Power Accuracy: +/- 0.5%
- Energy Accuracy: +/- 0.5%
- Power Consumption 100mA max
- IEC 60687
- Operating Temperature
0° to 60°C (32°F to 140°F)
- Relative Humidity
20% to 90% non-condensing

Inverter-Direct Base Systems

Inverter-Direct Base Systems connect directly to the inverter to capture inverter performance data as well as event codes (such as faults). Can be used alone or in combination with independent energy meter Base Systems.

Hardware includes:

Outdoor	Indoor
• Gateway for datalogging and communications	• Gateway for datalogging and communications
• Conduit-ready power	• Wall Adapter Power Supply
• Outdoor-rated IP 65 enclosure	

Inverters supported:



Inverter	Notes	Events
Fronius	<ul style="list-style-type: none"> • Max 9 per gateway • Requires Fronius Com Card and Datalogger Interface Box • 1 inverter on a gateway can use interface card easy P/N 4, 240, 013Z 	
SatCon PowerGate	<ul style="list-style-type: none"> • Max 1 or 2 per gateway 	
SMA SunnyBoy	<ul style="list-style-type: none"> • Max 9 per gateway • Requires SMA RS485 card 	
SMA Sunny Central	<ul style="list-style-type: none"> • 1 per gateway 	
Xantrex GT2.5 – 5.0	<ul style="list-style-type: none"> • Max 1 per gateway 	
Xantrex PVS, GT100, GT250, GT500	<ul style="list-style-type: none"> • Max 1 per gateway • Requires Xantrex communications module P/N 1-152658-01, dropped shipped by Xantrex to Fat Spaniel for conversion 	X

For further details on added inverter hardware required, see document: "Inverter Manufacturer Prerequisite for Inverter Direct Monitoring". Download the PDF document at http://www.fatspaniel.com/services/solar_electric.html.



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