



# Solar Meter

As consumers become more environmentally aware of their energy consumption and carbon footprint, the interest in and use of solar power is on the rise. Itron's revenue-grade Solar Meter is ideal for monitoring the production of residential and commercial solar photovoltaic (PV) systems. The meter collects, stores and uploads the PV system's production data to the solar solution provider over an existing cellular network link that is fast, reliable and secure.

Itron's cellular meter adheres, at minimum, to the stringent ANSI C12.20 5.5.2.5 accuracy class CA 0.5 standards — measuring inverter production with up to 99.5% accuracy, regardless of inverter or panel type. Simply put, Itron's Solar Meters are the most accurate and reliable meters available — and are already trusted by leading electrical utilities around the U.S.

And because our meters can be installed in a simple "plug and play" fashion with utility-standard installation techniques, installation and activation is streamlined — meters can report production data to the solar provider in as little as 45 minutes.

## BENEFITS OF CELLULAR SOLAR MONITORING

In addition to quick and easy installation, Itron Solar Meters are significantly less

expensive than other available monitoring systems. Using our technology, you can benefit from:

- » Revenue-grade meter accuracy
- » ANSI certification and the highest level of security available (meets federal security standards)
- » Unparalleled reliability and proven architecture deployed by leading utilities
- » Low-cost, one-piece installation that requires significantly less labor
- » Standard meter connections — no custom parts or wiring
- » Certified with network carrier for the highest possible reliability and fast data transfer with immediate accessibility
- » Remote disconnect switch option helps with non-payment issues and

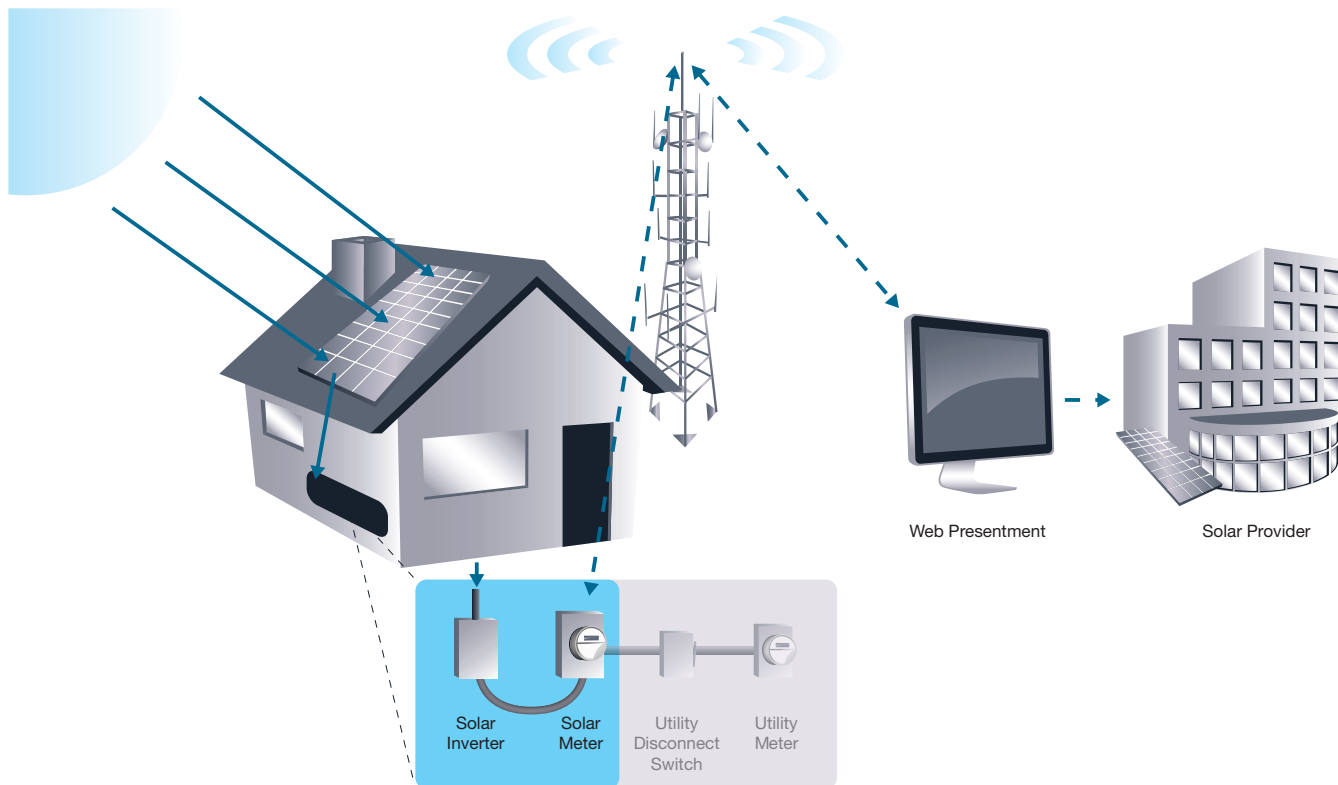
doesn't require entrance into the house or property

- » Immediate notification of production issues through alarms
- » Over-the-air upgrades to ensure your meters have the latest features and functionality, no on-site visits required

## Simple and Reliable

Itron Solar Meters can monitor any type of solar energy system production with 99.8% accuracy regardless of inverter or panel type. Information can be stored for up to 90 days.

Production data is stored on the meter and uploaded automatically over the cellular network to the collection system. Solar providers retrieve production data via an industry-standard format or secure XML file transfer from the collection system.



#### How it Works Smart Meter communication over cellular networks

#### Installation

A Solar Meter plugs into a number of energy industry-standard ANSI plug-in bases. For most residential installations of 200 amps or less, a widely available standard Form 2S is used. Installing the Solar Meter in-line with the service panel feed allows the solar provider to utilize the meter's remote disconnect capabilities to ensure safety during utility outages or modifications to the main service panel. Every Solar Meter is enabled to accept over-the-air firmware upgrades, ensuring the meter always has the latest updates.

#### Data Collection

All Itron Solar Meters collect interval data (at intervals typically between 15 minutes and

1 hour) as defined by the solar provider. Production data can be stored in the meter for up to 90 days. The Solar Meter module provides the solar provider with a vast quantity of meter alarms that provide information about the installation.

#### Network Connectivity

Itron Solar Meters are truly "plug and play" devices that use a cellular connection for data transfer. Using a Solar Meter, the installer has flexibility to select either AT&T or Verizon as the commercial network of choice to ensure the highest quality network connection available. Our meters use 3G connectivity for high-speed, secure and reliable communications. As cellular data networks incorporate new technology,

the Solar Meter will remain backward compatible so your investment remains protected for the long term.

#### Cloud and Hosting Services

Itron offers a hosted server so that solar providers don't have to worry about adding "yet another system" to manage and operate with in-house staff. With our cloud and hosting services, production data is collected and provided via web services or XML files to the solar providers' in-house systems or web-portal systems.

#### SPECIFICATIONS

Meter compatibility and specifications available upon request.



Itron is a global technology company. We build solutions that help utilities measure, manage and analyze energy and water. Our broad product portfolio includes electricity, gas, water and thermal energy measurement and control technology; communications systems; software; and professional services. With thousands of employees supporting nearly 8,000 utilities in more than 100 countries, Itron empowers utilities to responsibly and efficiently manage energy and water resources.

Join us in creating a more resourceful world; start here: [www.itron.com](http://www.itron.com).

#### CORPORATE HEADQUARTERS

2111 N Molter Road  
Liberty Lake, WA 99019  
USA

**Phone:** 1.800.635.5461

**Fax:** 1.509.891.3355