



SOLAR-100 Power Meter

Optimize the placement of solar systems and analyze window efficiency with the SOLAR-100. Measure solar output and calculate overall energy and efficiency.

- Windows performance testing: calculate and verify heating or heat reduction caused by direct sunlight
- Research the location of solar panels or solar water heaters
- Measures solar power and transmission
- Power mode measures incident solar radiation
- Transmission mode calculates the percentage of solar power transmission through materials such as windows
- Convenient display with remote sensor technology
- Selectable measurement units (W/m² or BTU/ft²·h)
- Min/max function identifies locations with maximum or minimum power
- Also useful for physics and optical laboratories, meteorology, agriculture

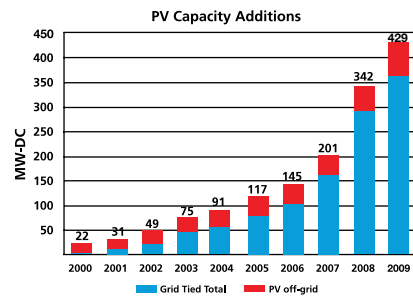
FEATURE	SOLAR-100
Solar Power	Up to 2000 W/m ² , 634 BTU/(ft ² ·h)
Max/Min	•
Data Hold	•

INCLUDED ACCESSORIES: Battery (installed), carrying case, users manual



THE FUTURE IS BRIGHT FOR SOLAR.

Despite the recent recession, the U.S. solar energy industry continues to be a sunny spot in the economy, growing in both new installations and employment. In 2009, total U.S. solar industry revenues climbed 36% and total U.S. solar thermal capacity approached 24,000 MW. Year-over-year growth in annual grid-tied capacity increased by 38 percent.



On the national policy front, significant solar victories are paving the way for businesses and consumers to make long-term investments in solar. The Emergency Economic Stabilization Act extended the 30% solar investment tax credit for 8 years, lifted the cap on residential PV installations, and allows tax credits to be applied against the alternative minimum tax. The American Recovery and Investment Act established a temporary grant program that covers 30% of the cost of installing solar

equipment and a \$60 billion loan fund for renewable energy and transmission projects.

States and cities across the nation are instituting aggressive new solar policies. Massachusetts offers rebates up to \$4.40 per watt for grid-tied solar systems. Hawaii requires new residential construction to include solar water heaters. Maryland and Missouri both increased their Renewable Portfolio Standard (RPS) goals to 20% and 15% respectively with specified percentage mandated for solar.

This all adds up to unprecedented opportunity for those who install, test and maintain solar systems. **Be prepared to take advantage of the solar business boom with Amprobe's new suite of solar tools.**

Source: U.S. Solar Industry Year in Review, Solar Energy Industries Association, April 5, 2010.

For detailed specifications go to www.Amprobe.com



ORDERING INFORMATION

SOLAR-100
SOLAR POWER METER

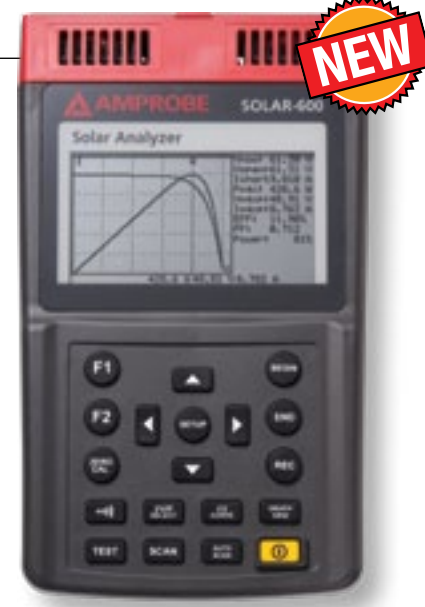
SOLAR-500 and SOLAR-600 Solar Analyzers

Install, maintain, troubleshoot and evaluate the efficiency of solar panels with these professional analyzers. The SOLAR-600 also offers real-time data logging and PC downloads for further analysis.

- Determine the proper inverter size and optimum power output position of panels
- Identify broken or worn-out cells
- I-V curve test with cursor for solar cells
- Maximum solar power (Pmax) search by auto-scan
- Maximum voltage (Vmaxp) at Pmax
- Maximum current (Imaxp) at Pmax
- Voltage at open circuit (Vopen)
- Current at short circuit (Ishort)
- I-V curve with cursor
- Calculation of panel efficiency (%)
- Manual single point test
- Real time datalogging and PC download (SOLAR-600)

FEATURE	SOLAR-500	SOLAR-600
DC Voltage:	0 V → 6 V, 6 V → 10 V, 10 V → 60 V	0.000 V → 9.999 V, 10.00 V → 60.00 V
DC Current:	0 A → 0.6 A, 0.6 A → 1 A, 1 A → 6 A	0.01 A → 9.99 A, 10.0 A → 12.0 A
DC Current Simulation	0 A → 1 A, 1 → 6 A	0.01 A → 9.99 A, 10 A → 12 A
Power	0 W → 360 W	0 W → 720 W
Efficiency		•
Scan delay		0 mS → 3000 mS
Alarm		•
Solar Panel Area		0.001 m ² → 9999 m ²
Standard Light Source		10 W/m ² → 1000 W/m ²
Data Storage Memory	•	99 records
Data Logging		•

INCLUDED ACCESSORIES: SOLAR-500: Users manual, rechargeable batteries (installed), ac adapter, test leads, carrying case, USB cable and software CD
SOLAR-600: Users manual, rechargeable battery pack (installed), ac adapter, USB cable and software CD, test leads, carrying case



RECOMMENDED ACCESSORIES

SOLAR-BAT1 Lithium Battery (SOLAR-600)



For detailed specifications go to www.Amprobe.com



ORDERING INFORMATION

SOLAR-500
SOLAR ANALYZER
SOLAR-600
SOLAR ANALYZER